SB Series Owner's Handbook.

# BARINA & COMBO

HOLDEN

Owner's Name .....
Address .....
Town .....
State.....Postcode .....

Model Name .....
Reg. No.....Eng. No. .....
Odometer Reading .....
Date of Purchase .....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |

*Vehicle Identification Certificate*

Selling Dealer's
Stamp & Signature .....

General Motors-Holden's Automotive Ltd. Aust. Co. No. 006 893 232 (hereinafter Holden).

**Change of name, address or ownership**

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle. Also, if less than three years old, this car will qualify for Roadside Service (refer Chapter 9), provided our owner name and address records are current. If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the form at the end of Chapter 12.

Part No. 92052668
October 1995 (SB, Print 8)

## CONTENTS


Instruments, switches, glovebox, heating, opening bonnet, clock, cigarettes, exterior lights, radio, wipers and washers. **Dash board 1**

Keys, locks: doors, hatch, child safety doorlock, alarm, anti-theft, dead lock. **Locks 2**

Seats, seat belts, child restraints, mirrors, windows, park brake, interior lighting, Combo cargo grille. **Know your car 3**

Engine starting, running in, use of auto transmission, use of manual transmission, fuel consumption notes, driving precautions, anti-lock braking. **Driving 4**

Exhaust caution, petrol fuelling, fuel tank capacity, emission control, reducing fuel consumption. **Fuel 5**

Accidents, first aid, towing the vehicle, flat tyre, engine overheating, flat battery, air bag. **Emergencies 6**

Service manuals, checking: oil, water, auto trans fluid, power steering fluid, brake fluid, washer fluid, battery, fuses, tyre pressure, bulb replacement. **Weekly checks 7**

Engine specs, transmission specifications, identification plates, dimensions. **Specifications 8**

Warranty, Holden Dealers, HoldenWise, Customer Assistance. **After sales 9**

Loading information, towing, towing precautions. **Towing 10**

Interior cleaning, washing, list of maintenance materials. **Cleaning 11**

Maintenance schedule, labour times, service coupons, change of name/address forms **Servicing 12**

**Index**

We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

This handbook applies to all 95/96 SB Barina and SB Combo models. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not installed in your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

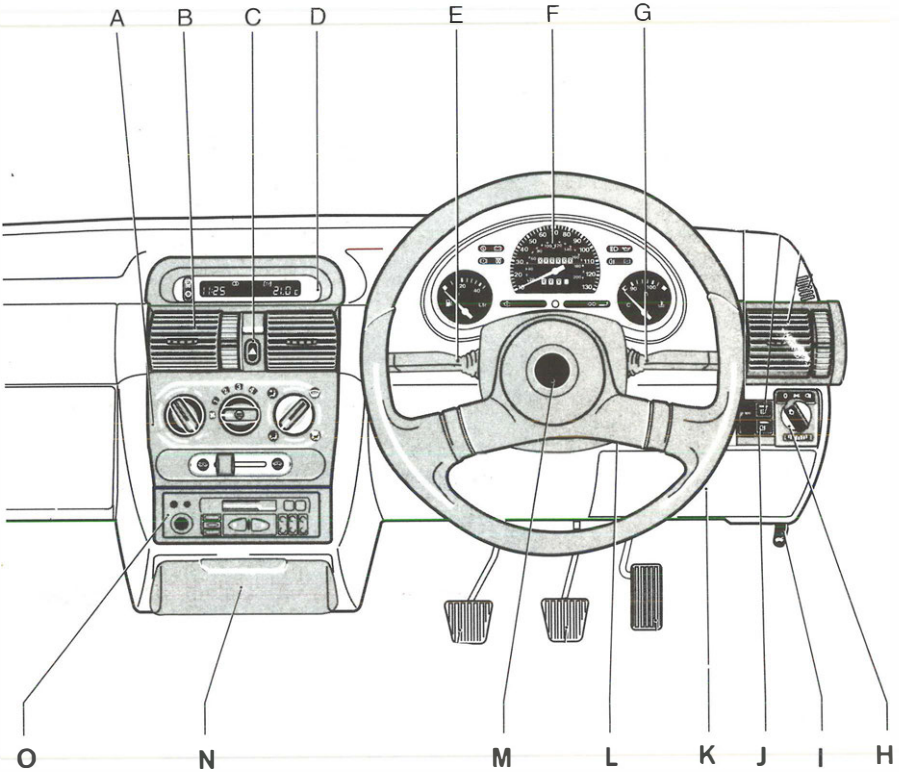
CHAPTER 1

# Dash board

The following page illustrates the dash board, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.


| Page | |
|---|---|
| 1-3 | Ignition switch |
| 1-3 | Horn |
| 1-4 | Gauges |
| 1-6 | Warning/reminder lights |
| 1-8 | Wipers and washers |
| 1-9 | Exterior lights |
| 1-11 | Glovebox |
| 1-11 | Ash tray and lighter |
| 1-11 | Radio |
| 1-12 | Heater and air conditioner |
| 1-17 | Clock |
| 1-18 | Bonnet release |

## LAYOUT




| | | Page |
|---|---|---|
| A | Heater, air conditioner controls | 1-13 |
| B | Vents | 1-12 |
| C | Hazard warning switch | 1-10 |
| D | Clock, temperature display | 1-17 |
| E | Lever for turn signals and high low beam | 1-9 |
| F | Gauges | 1-4 |
| G | Lever for front and rear wipers and washers | 1-8 |
| H | Headlights switch | 1-9 |
| I | Bonnet release lever | 1-18 |
| J | Fog light switches | 1-10 |
| K | Fuse box cover | Chapter 7 |
| L | Ignition switch | 1-3 |
| M | Horn | 1-3 |
| N | Ashtray and lighter | 1-11 |
| O | Radio | 1-11 |

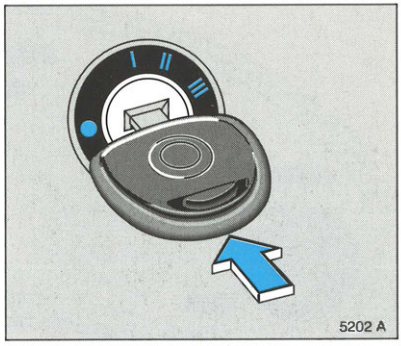
# IGNITION and HORN

● *LOCK:* Steering locked, ignition off.

I *OFF:* Steering unlocked, ignition off

II *ON:* Ignition on

III *START:* Start the engine




**To release steering column lock:**

To release the lock, move the steering wheel slightly and turn the key to position I.

**To lock steering column:**

Withdraw key in position ● . Rotate steering wheel until the lock is heard to engage.

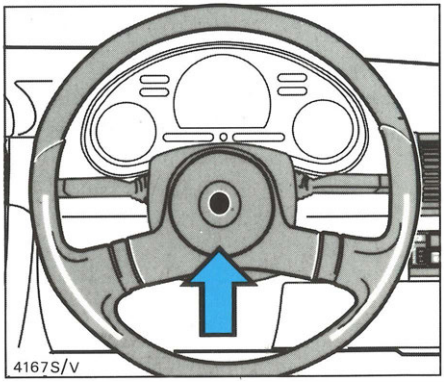
**CAUTION:**

**Do not turn the engine off while the vehicle is moving. Power assisted equipment (such as brakes or steering) which are operated by the engine will be ineffective. Never remove the key while the vehicle is in motion as this will lock the steering of the vehicle.**

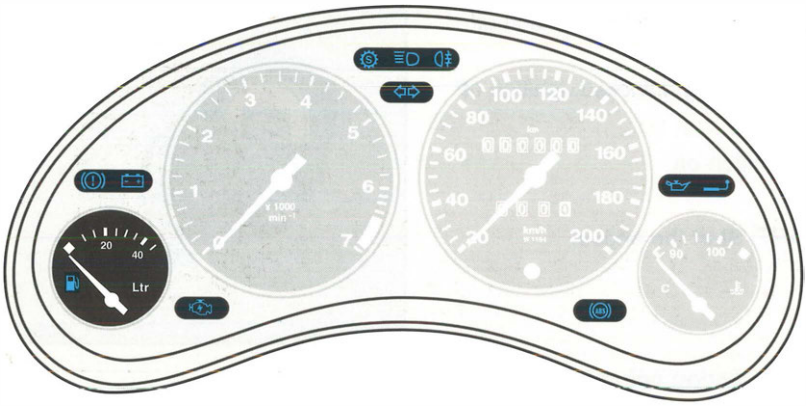
## Horn

Press the horn pad in the centre of the steering wheel to activate.

If the vehicle is fitted with an air bag the horn is activated by pressing the symbol, on either side of the steering wheel.



# GAUGES




## Speedometer

The speedometer gauge indicates speed in kilometres per hour.

The odometer records kilometres travelled since the car was built.

The tripmeter records kilometres travelled on a particular trip. Push the tripmeter reset knob (beneath the tripmeter) to reset the tripmeter reading to zero.

## Tachometer (if fitted)

The tachometer indicates the engine speed in revolutions per minute (r.p.m.) x 1,000.

Sustained operation in the warning zone will cause serious engine damage. If possible, drive in each gear in the low engine speed range (between approx. 2,000 and 3,000 rpm) and maintain an even vehicle speed.

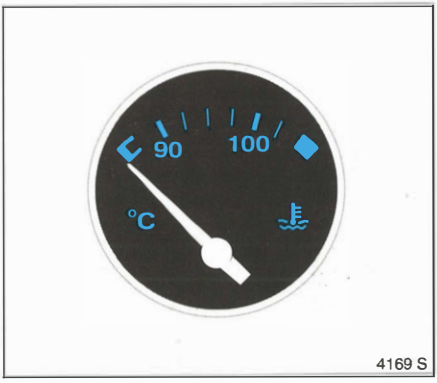
## Dimmer

Gauges are illuminated when the headlights or park lights are switched on.

Brightness can be adjusted by turning the knurled knob.

# GAUGES

## Engine temperature gauge




*Left warning zone:*

Engine operating temperature not yet reached.

*Right warning zone:*

Temperature too high. Carefully stop car, and switch off the engine. Refer "Emergencies" chapter for further information.

*Between warning zones:*

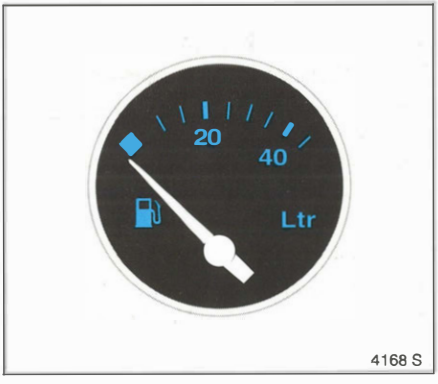
Normal operating temperature.

## Fuel gauge

Warning zone, left = Fill up!

On some models, a warning light is provided in the fuel gauge. This will light up when the fuel is running low, and will come on earlier when driving around bends.

Refer to chapter 5 when refuelling.



## *WARNING LIGHTS*

### Sporty drive programme (automatic transmission)

Lights up when sporty drive programme selected, refer Starting and Driving Chapter. However, if light flashes, consult a Holden Dealer.

### Alternator

Lights up when ignition is switched on and goes out once the engine has been started and engine speed increased above idle speed.

If it lights up during driving then the battery is not being charged (and engine cooling may be affected). You should see a Holden Dealer as soon as possible.

### Brakes

Lights up when ignition is switched on if park brake is applied and/or brake fluid level is too low.

To check that the bulb is working, ensure that the symbol lights up when the park brake is applied and the ignition is ON.

If it lights during driving and the park brake is *not* applied you should stop the car as soon as possible, as the light is indicating that the brake fluid level is low.

### Check engine (if fitted)

Your car if fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required.

The symbol lights up during engine starting and goes out shortly after engine starts to run.

When driving, the symbol may light up briefly and then go out again. This is of no significance. However, if it often or continuously lights up then service to the Engine Management System is required.

Although the car may still be drivable and does not require towing, see your Holden Dealer as soon as possible as continued driving could affect fuel consumption, engine performance or may damage the catalytic converter.

### Low fuel, *in the fuel gauge* (if fitted)

Lights up when fuel gauge enters red zone and will come on earlier when driving round bends. Never let tank become empty.

Refer to information on the inside rear cover of this handbook when refuelling.

### High beam

Lights up when headlight high beams are in use.

# WARNING LIGHTS

## Oil pressure

Lights up when ignition is switched on and goes out after engine is started. It can light up intermittently when idling if engine is hot, but must go out when engine speed is increased.

If illuminated during driving, immediately stop the vehicle and switch off the engine. Check the engine oil level. If the level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with this light showing.

## Fog tail lights (if fitted)

Lights up when the fog tail lights are switched on.

## Turn signal indicator

Flashes when turn signal lights are on. If the symbol flashes rapidly a turn signal lamp bulb has failed.

## ABS (if fitted)

Lights up for a few seconds when the ignition is switched on. If it does not go out or if it comes on during driving, there is a defect in the ABS (Anti-lock Brake System). The vehicle's brake system remains operational but without ABS assistance, refer Chapter 4. You should consult your Holden Dealer as soon as possible.

## Air bag (if fitted)

Lights up for a few seconds when the ignition is switched on. If it does not go out or if it comes on during driving, there is a defect in the air bag system, and you should consult your Holden Dealer as soon as possible.

## Seat belt (if fitted)

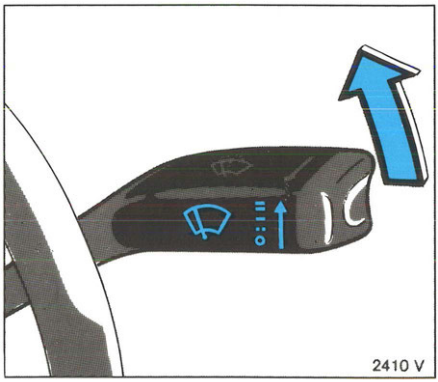
Later built Barinas have a seat belt warning light, which will be displayed for for a short time when the ignition is first turned to ON. This may be accompanied by a warning chime. This is all designed to remind occupants to fasten their seat belts.

# WIPERS & WASHERS

## Windscreen wipers

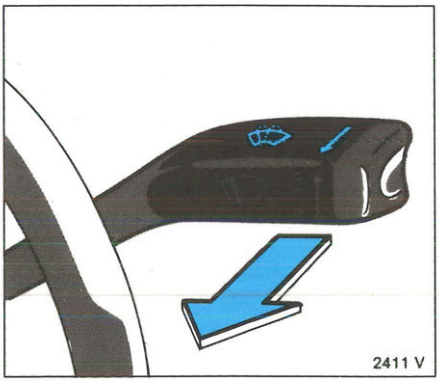
Move the lever upwards.

| | | |
|---|---|---|
| = | = | Fast |
| - | = | Slow |
| - - | = | Intermittent |
| O | = | Off |




## Windscreen washer

Never operate with wipers on dry glass, as this will damage the rubber. To spray washer fluid onto the windscreen, pull the lever toward you. At the same time the wipers are operated for several sweeps.



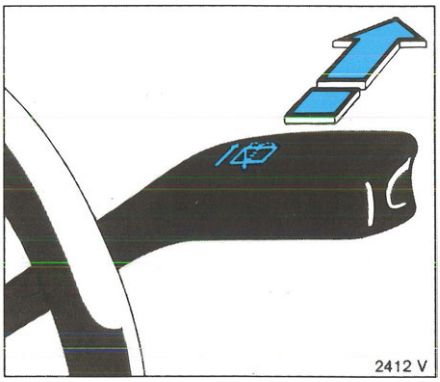

## Tailgate washer (if fitted)

Push lever away from the steering wheel.

The (first) 'click' position will turn on the rear wiper.

Pushing the lever further away from the steering wheel to the 'held' position will cause both the rear wiper and rear washer to operate. Hold the lever in this position as long as required.

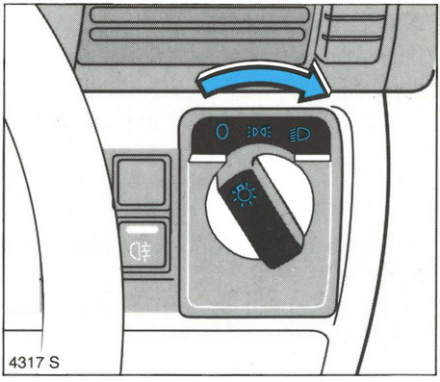
When the lever is at the 'click' position, the rear wiper will operate at an intermittent speed.



# EXTERIOR LIGHTS

## Light switch

| | | |
|---|---|---|
| 0 | = | Off |
| ⊃≡ | = | Park lights |
| ≡D | = | Park lights plus headlights |
| ☼ | = | pull to turn on courtesy light |



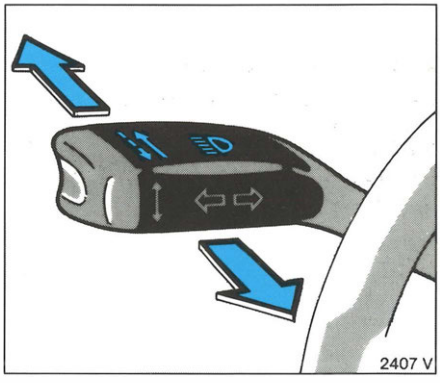

## High/low beam

When the headlights are switched on, push the lever away from you, until you feel a click, then release. The headlights will change from low to high beam. Pull the lever back towards the steering wheel to return to low beam. When the high beams are in use a symbol on the instrument panel will glow.

It is also possible to flash the high beams for signalling purposes (even if the headlights are off) by pulling the lever towards you. The lights will remain in high beam as long as the lever is held.

Leaving the headlights switched on without the engine running will eventually flatten the battery.

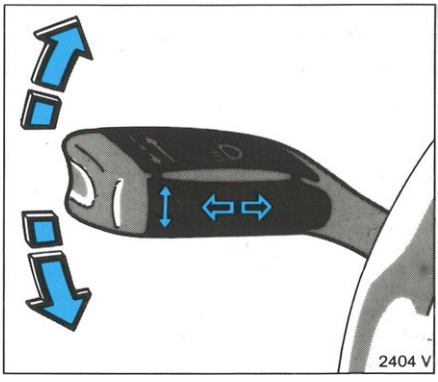
On some models a warning buzzer will remind you to switch off the headlights.




## Turn signals

Push the lever up or down (as required) to signal a turn.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when released.



# EXTERIOR LIGHTS

## Fog lights (if fitted)

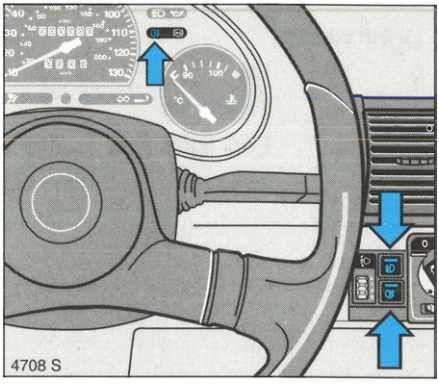
The switch for the fog lights is located just to the left of the switch for the headlights.

Push the button to switch the fog lights on/ off.

The top switch is for the front fog lights, the bottom switch for the rear fog lights.

The light in the switch indicates when the fog lights are working.

You check your State's Laws regarding use of fog lights when driving.



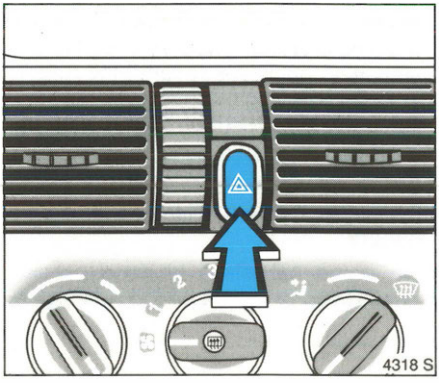

## Hazard

Depress = on

Depress again = off

Use the hazard warning flasher to warn other drivers if your vehicle becomes a traffic hazard, day or night.

When the hazard warning system is on, the button's symbol will flash, in unison with the external turn signals.



# RADIO, CIGARETTES, GLOVEBOX

## Radio

Refer radio instruction leaflet, inside the glovebox.

## Mobile phones and CB radios

Mobile phones and CB radio equipment which use an integrated antenna, may temporarily affect the car's electronics when used inside the car, due to the interference created when transmitting.

Therefore, mobile phones and CB equipment that use an antenna fitted to the outside of the car should be used whenever possible.

If phones or CBs with an intergrated antenna *must* be used inside the car, care should be taken not to operate near the dashboard area.

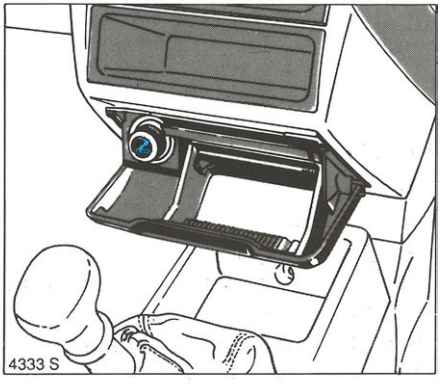
## Ashtray & cigarette lighter (if fitted)

Swivel the cover down to reveal the ashtray and cigarette lighter.

To empty the ash tray, remove the tray by depressing the front of the tray to unhook and then pulling towards you. Empty and simply push back into place.

The cigarette lighter works when the ignition is switched on. Push the cigarette lighter inwards to heat.

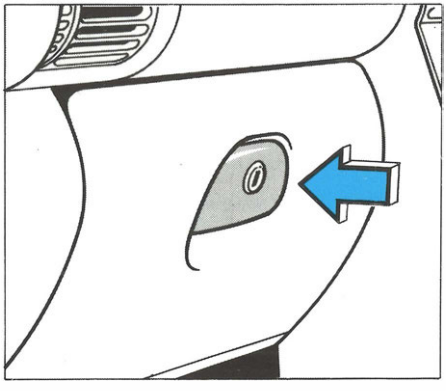
To close the ashtray and cigarette lighter cover, swivel the cover up.




## Glovebox lock (if fitted)

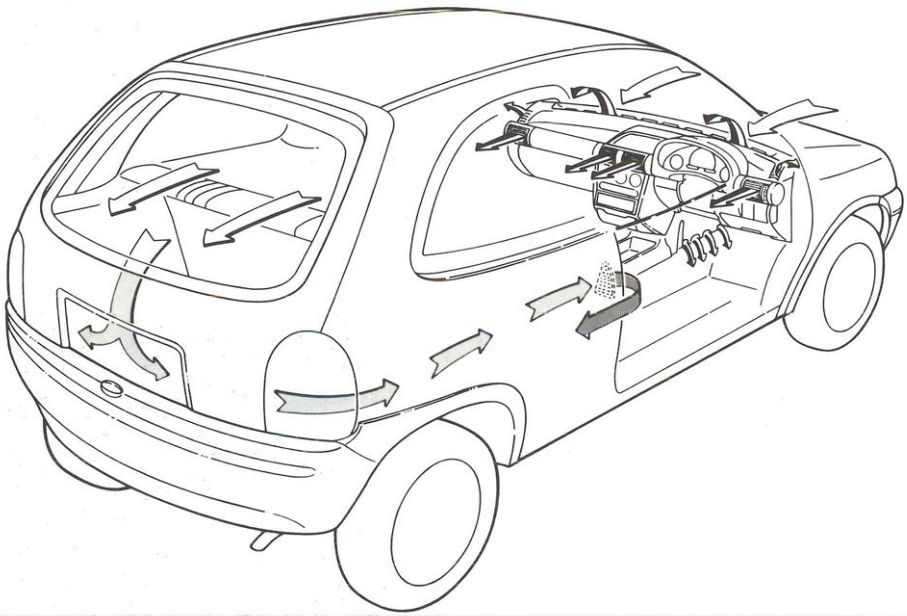
Turn the key clockwise to lock, anti clockwise to unlock.

When unlocked, pull up the lever to open the glovebox lid. Push the lid shut to close the glovebox.



## HEATING AND AIR CONDITIONING (if fitted)

The car features a flow through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time.

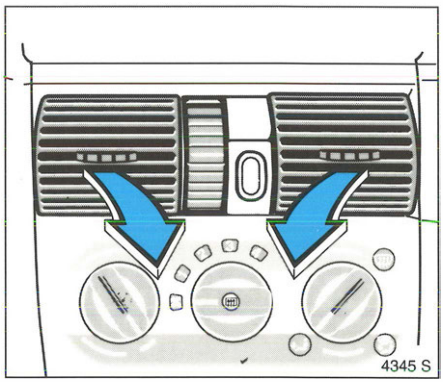


Outside air (except when the vents are closed) is drawn into the car through the opening at the base of the windscreen. Do not allow this opening to become clogged with leaves or snow.

The demist and feet vents are not adjustable as they direct air to the windscreen, windows or feet in the best possible way.

However, the vents which direct air to the face are adjustable. They can be swivelled and tilted as required. They can also be completely shut off by turning the wheel at the side of the vent downwards. Note that the centre vents act as a pair and are shut off or turned on together, by the middle wheel.

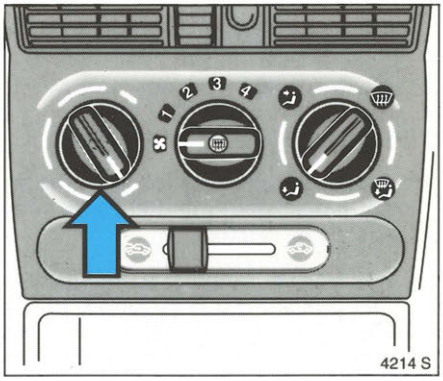
A setting like that shown in the illustration, but with the air flow directed slightly upwards, directs a small stream of air to the rear passengers, without impairing the comfort of the driver and front passenger.



# *HEATING AND AIR CONDITIONING (if fitted)*

## Temperature dial

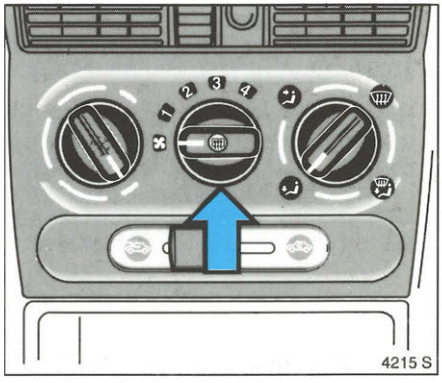
Anticlockwise = cold; clockwise = warm.




## Fan dial

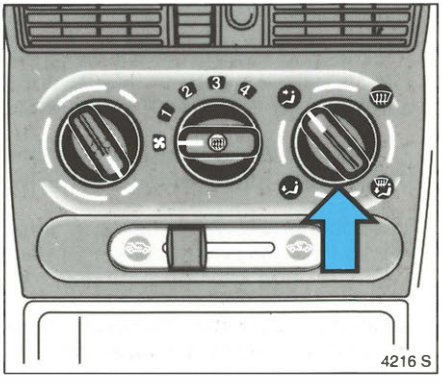
Off plus 4 fan speeds are provided.

Note that the rate of air flow is determined by car speed, as well as by the fan, and therefore the fan should be switched on when driving slowly.



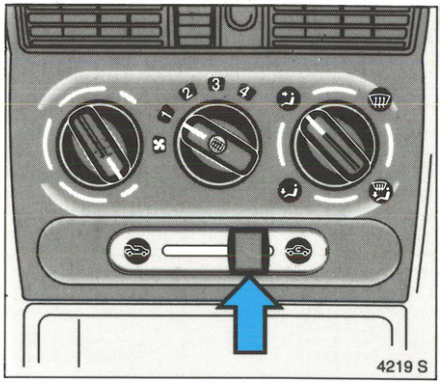

## Vent dial

- air from demist vents
- air from demist and foot vents
- air from foot vents
- air from face level vents



# HEATING AND AIR CONDITIONING (if fitted)

## Air intake switch




Lever to the left: fresh air.

Lever to the right: re-circulated air.

To aid air conditioning, the air intake lever is slightly restricted from full travel when air conditioning is fitted.

When following another car on dusty roads, or to prevent exhaust fumes or odours entering your car, move the switch to the re-circulation position. However, when driving on unsealed roads but where the dust is not airborne, move the switch to fresh. All windows must be closed and the fan preferably on a high speed so that positive air pressure in the car will prevent dust entry.

Re-circulate reuses interior air and is therefore not recommended for long periods of time. If occupants are smoking, it is recommended that the re-circulate position NOT be used, as the tobacco smoke adheres to the air ducts and will produce stale smelling air.

## Air conditioning (if fitted)

Air conditioning not only cools the air but also removes moisture. Then, if the temperature dial is moved away from extreme cold, the air will be reheated before entering the cabin.

The air conditioner is switched on by pulling out the dial which controls the temperature. The snowflake symbol on this dial will glow when the air conditioner is operating. The fan automatically runs at low speed, which can be increased if required.

The air conditioning system operates only in the temperature ranges in which it is required; it switches off automatically when the outside temperature is below + 4° C.

To conserve fuel, switch off the air conditioning in cold weather. However, once every two weeks (with the engine running) switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system.

At least one vent must be open, when the air conditioning is ON, so that the evaporator does not ice up due to a lack of air movement.

# *AIR CONDITIONING NOTES (if fitted)*

## Maximum cooling in hot weather or when the car has been left in the sun

Open windows briefly so that warm air can escape rapidly.

- air conditioning switch ON (pull out temperature dial)
- air intake in re-circulate position
- move temperature lever to cold
- fan to highest speed
- set vents dial to "face"
- open all vents

Do not leave re-circulation on for too long, as no outside air is drawn into the car; cabin air is re-circulated.

## Normal cooling

- air conditioning switch ON
- air intake to fresh air
- move temperature lever to cold
- fan speed as required
- set vents dial to "face"
- open all vents

## Ventilation without air conditioning

To conserve fuel when air does not require cooling.

- air conditioning switch OFF
- air intake switch to fresh
- move temperature lever to cold
- fan as required
- set vents dial to "face"
- open vents

## Window demisting and defrosting

- air conditioning switch ON
- temperature lever to hot
- fan as required
- vents dial to "demist"
- open side vents and direct them towards the door windows. For simultaneous warming of the foot area, set vents dial to "face and foot".

# HEATING, DEMISTER

## Heating

- air conditioning switch OFF
- air intake switch to fresh
- move temperature lever to hot
- fan as required, but not full speed
- vents dial to "foot"

Note that heat will not be available until the engine warms up. Therefore, keep vents closed until the engine has warmed up, then direct vents towards side windows (if required) to aid defrosting.

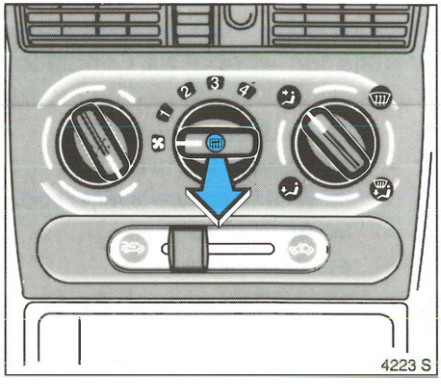
## Demister (rear window)

The rear window demister is only operational when the engine is running.

To switch on, pull out the dial which controls the fan speed.

When operating, a symbol in the middle to the fan dial will glow.

Remember to turn off the demister as soon as the rear window is clear.

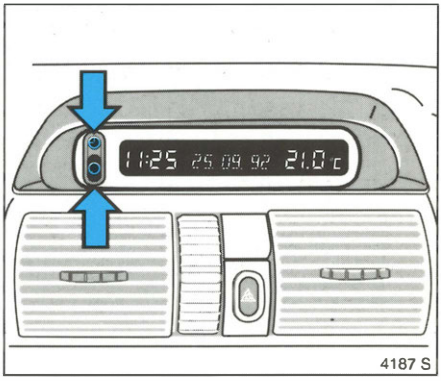


# CLOCK

Display shows the time, date and outside temperature when the ignition is ON.

As with the instrument lighting, the brightness of the display (when park/head lights are on) can be adjusted with the knurled knob below the light switch.

When the ignition is off, the display can be illuminated for approx. 15 seconds by briefly pressing one of the buttons on the left side of the display.




**Adjusting the display:**

- Turn on the ignition and switch off the radio
- Press top button for approximately 2 seconds (hours starts flashing)
  Press bottom button until hours are correct
- Press top button (minutes starts flashing)
  Press bottom button until minutes are correct
- Press top button (day starts flashing)
  Press bottom button until days are correct
- Press top button for approximately 2 seconds (months starts flashing)
  Press bottom button until months are correct
- Press top button (hours starts flashing)
  Press bottom button until hours are correct)
- Press top button - clock starts at 0 seconds

**Outside temperature**

Caution: The road surface may be icy, even though the display indicates a few degrees above zero.

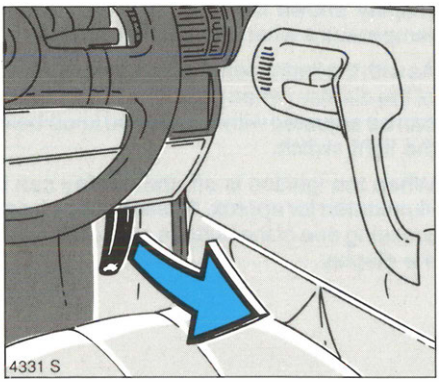
To warn the driver that the road surface may be icy, the display flashes for approx. 20 seconds when the temperature drops below 3° C.

"--.-° C" in the display indicates a fault in the system and you should see your Holden Dealer.

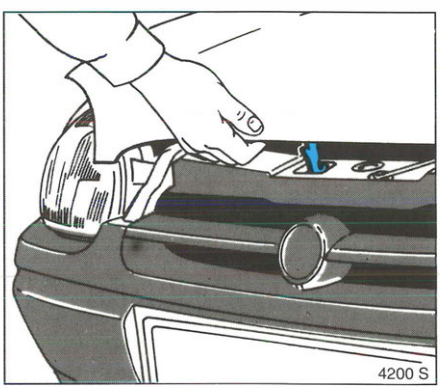
Note that a fall in temperature is indicated immediately, and a rise in temperature after a short delay.

# BONNET

From inside the car, pull the lever toward you. This allows the bonnet to release but is prevented from opening by the safety catch.



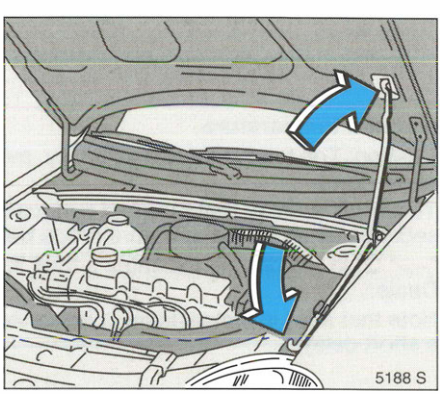

To open completely, lift bonnet slightly, reach in under the bonnet and move the lever upwards (while lifting the bonnet).




Fully open the bonnet. Insert support rod into slot provided.

Before closing, press support rod firmly into holder and lower the bonnet gradually to be finally dropped by its own weight.

Always check that the bonnet is properly closed and that the release lever inside the car has returned to its original position.



## Notes

# Notes

CHAPTER 2

# Locks

Page

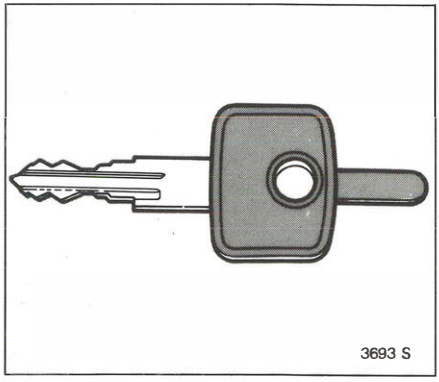

2-2 Keys
2-2 Child safety rear door lock
2-3 Manual door/tailgate locks
2-4 Electric door/tailgate locks
2-5 Dead locks
2-6 Anti-theft
2-8 Combo rear door lock

# KEYS & LOCKS

## Keys

Before placing the key on your key ring, remove the plastic tab (or label) and hide in a safe place. Then, if your key is lost, a replacement can be ordered through a Holden Dealer by quoting the key code number and providing proof of ownership.

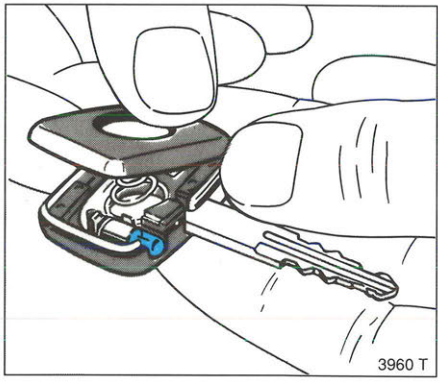
Also note the key code on alloy wheels if they are fitted with locks.




## Key with light (if fitted)

To illuminate, press the symbol in the centre of the key head.

If the light becomes dim, open the key head using the notch between the two halves at the top of the key head, and replace the battery.



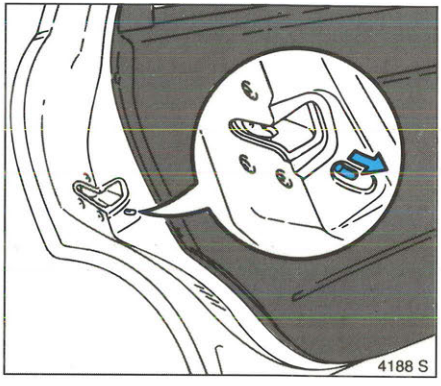

## Rear "child proof" door locks (4 door Barinas only)

"Child safety locking" helps prevent rear doors from being accidentally opened by small children in the vehicle.

When the lever is in the lock position (downwards) the rear door cannot be opened from the inside. It can be opened only from the outside.

**CAUTION:**

**For safety, you should check that the lock is operating correctly (after setting) by trying to open the door from inside the car.**




## Glovebox lock

Refer Chapter 1.

# MANUAL *DOOR LOCKS*

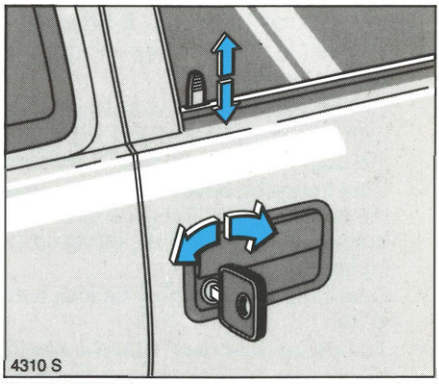
## Doors (without central locking)

Doors are locked when the lock button is down and unlocked when the lock button is up.

To open a front door, turn the key in the lock and raise the door handle.

To lock doors from inside, depress the lock button.

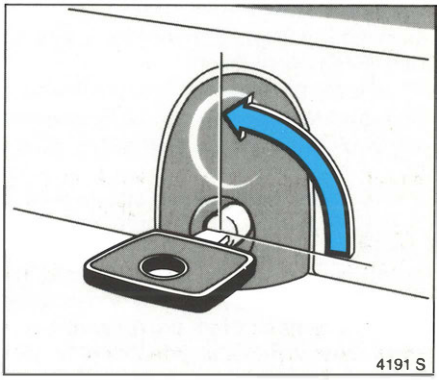
If the button on driver's door is depressed when the door is open, it will spring up when the door is closed, thus preventing the driver from being inadvertently locked out. The button will not, however, spring up if the door handle is raised when the door is being closed.




## Tailgate (without central locking)

The tailgate is locked when the slot in the button is vertical and unlocked when the slot in the button is horizontal.

Release the tailgate by pressing the button.




## Fuel filler (without central locking)

To unlock filler cap, insert key and turn anticlockwise. Refer Chapter 5 when refuelling.

# ELECTRIC DOOR LOCKS (if fitted)

## Central door locking (if fitted)

- The doors, the tailgate (if set) and the fuel filler flap will all lock and unlock simultaneously.
- Central locking is activated by the lock button on the inside of the driver's door, or by using the key to lock/unlock either the driver's door or the passenger's door. Note that the button on the inside of the passenger's door can only 'unlock' central locking.
- If the button on driver's door is depressed when the door is open, it will spring up when the door is closed, thus preventing the driver from being inadvertently locked out. The button will not, however, spring up if the door handle is *raised* when the door is being closed.
- Doors are locked when the lock button is down and unlocked when the lock button is up.
- To open a front door, turn the key in the lock and raise the door handle.
- Locked doors are unlocked automatically in the event of an accident (to allow assistance from outside), provided that the ignition is not switched off.
- If the system is overloaded as a result of repeated operation at short intervals, the power supply is cut off for approximately 30 seconds.

## Tailgate (with central locking)

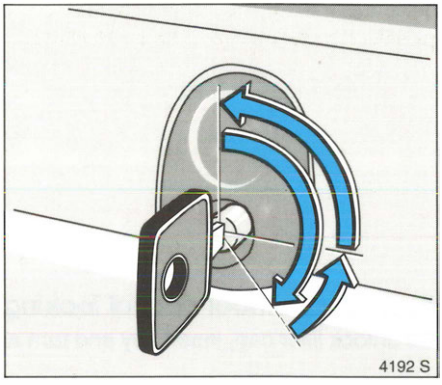
Provided that the hatch lid key slot is horizontal, the tailgate will lock/unlock when the doors are locked/unlocked.

To keep hatch lid permanently locked (regardless of door lock position) turn the key slot to the vertical position.

To unlock, turn the key fully clockwise, past the horizontal position.

To return the operation to locking/unlocking in synchronisation with the doors, turn the key back to the horizontal position. After unlocking, press the button in, to open the hatch lid.

If the doors and tailgate are locked with central locking, the tailgate can still be unlocked by using the key. Turn the key clockwise as far as it will go and press inwards. To guard against being locked out, the key cannot then be removed at this point. Turn the key back to the horizontal (or vertical) position and remove. The tailgate is now locked again.

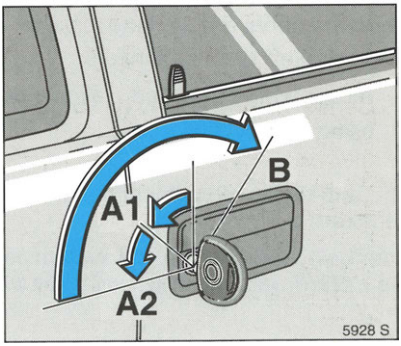



## Fuel filler release (with central locking)

The fuel filler flap is unlocked whenever the doors are unlocked. Refer to Chapter 5 when refuelling.

# ELECTRIC DOOR LOCKS (if fitted)

## Dead locking (with central locking)




On the driver's door lock:

- position **A1** locks all doors and the tailgate.
- position **A2** locks all doors and the tailgate and sets the the deadlock.
- position **B** unlocks and turns off the deadlock.

Locking the driver's door with a key not only locks all the doors but allows setting the 'dead lock' protection.

Insert the key into the lock and turn anticlockwise to position **A2** and remove the key.

This locks all doors so that no door can be opened - even if entry is gained by breaking glass. Doors can only be unlocked from outside the vehicle with the ignition key. Do not use the dead lock if there are people in the vehicle. The doors cannot be unlocked from inside.

To unlock: turn key back beyond vertical position as far as it will go, to position **B**.

# ANTI-THEFT (if fitted)

Setting the dead lock also sets the anti-theft system. The anti-theft system is turned off when the doors are un-dead locked.

The anti-theft system monitors:

- movement of the doors, tailgate and bonnet.
- radio connection.

The anti-theft system monitors the above circuits, triggering the alarm if movement is detected.

After being switched on, the system performs a test within 10 seconds. The LED light in the hazard warning switch will glow while self testing, see following page.

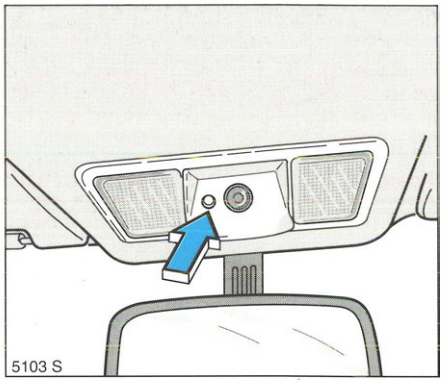
## Switching on

- Ensure all of the following are closed: windows, sun roof (if fitted), doors, tailgate, bonnet.
- Switch on the anti-theft system by turning the driver's door lock anticlockwise to the horizontal position

## Switching on (if animals to be left in vehicle)

Noise from animals inside the vehicle can trigger the alarm. Use the following instructions if animals are to be left (hopefully for only a very short time) inside the vehicle.

- Ensure that the tailgate and bonnet are closed.
- Press the button near the interior rear vision mirror.
- Note that the LED flashes for 10 seconds and then goes out.
- Close doors and switch on anti-theft system. LED lights up for approx. 10 seconds. The system is now activated, without glass monitoring.




## Switching off

Turn the key fully clockwise, past the vertical position.

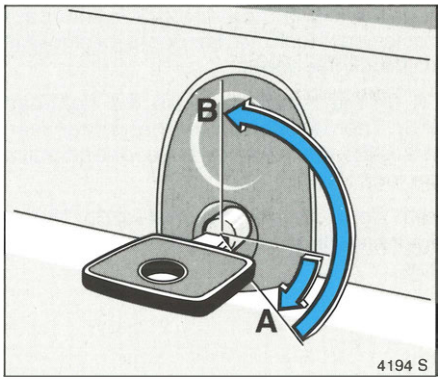
# ANTI-THEFT (if fitted)

## Tailgate

The tailgate may still be opened and shut again (from outside) while the anti-theft system is activated:

- Unlock the tailgate by turning the ignition key clockwise as far as it will go (position A).
- Open the tailgate
- Close the tailgate
- Lock by turning the key back to the vertical position (B).

The anti-theft system for the doors cannot be switched on or off from the tailgate lock.




## Alarm

If the alarm is triggered, the horn sounds for 30 seconds and the turn signals flash. The alarm can be stopped by switching off the anti-theft system, i.e. by unlocking the doors.

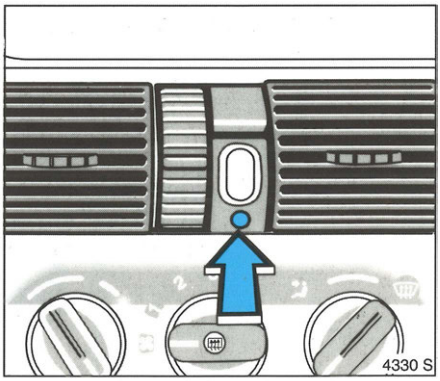
## LED

After being switched on, the anti-theft system performs a self test, within the first 10 seconds. During this time the light, illustrated (in the hazard warning button) will glow. If this light flashes during the initial 10 seconds it indicates that a door or the tailgate is open. The light will also flash during this time if a fault in the anti-theft system has been found.

Therefore, if the light is flashing within 10 seconds of turning on the anti-theft system, and all the doors and tailgate are securely closed, you should contact your Holden Dealer to have the anti-theft system checked.

After 10 seconds the light *should* be flashing, indicating that the anti-theft system is operational.

When switching off the anti-theft system the light will glow for approximately one second.



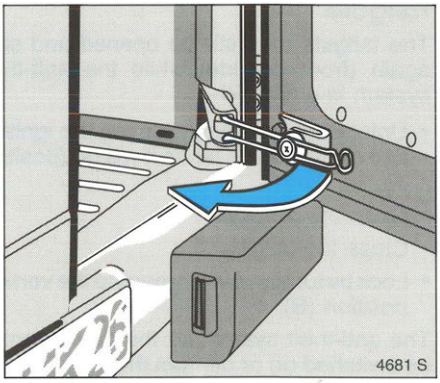
# COMBO REAR DOOR LOCK

## From the outside

Turn the key in the door lock cylinder anti-clockwise to lock the rear doors, or clockwise to unlock the doors.

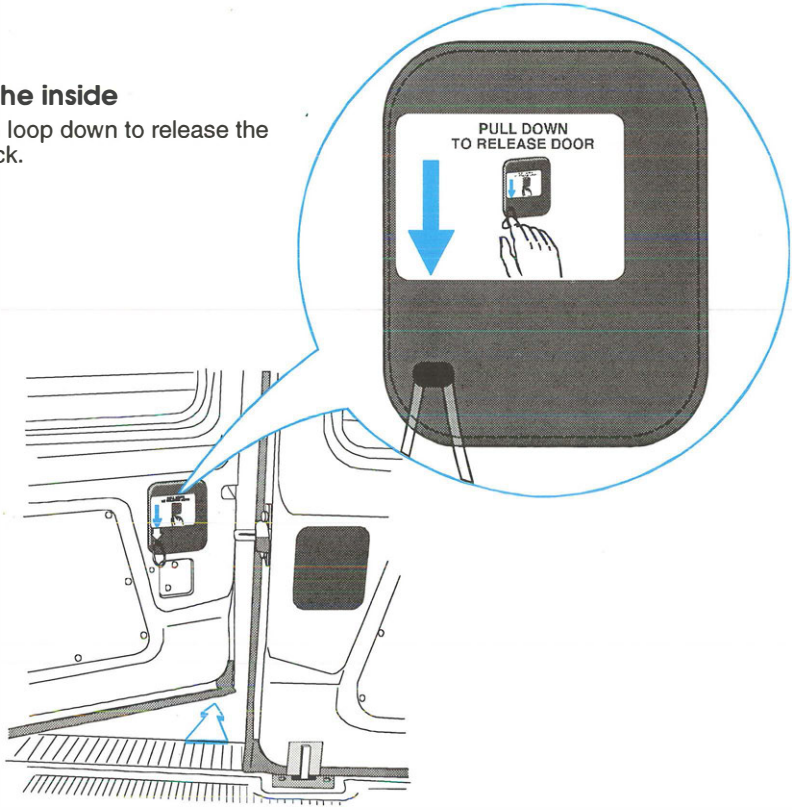
Lift up the handle to open the right-hand door. Then, to open the left-hand door, reach around to the inside of the door and pull up the lock lever.

Both doors can be opened up to 180° by disconnecting the wire at the bottom of each door.




## From the inside

Pull the loop down to release the door lock.



CHAPTER 3

# Know your vehicle

Page

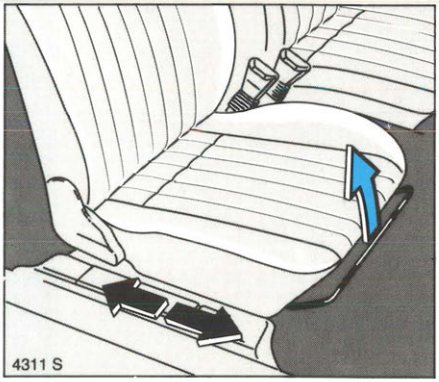

3-2 Seat adjustment
3-4 Seats - rear, fold down
3-6 Seat belts
3-8 Child restraints
3-10 Mirrors
3-11 Windows
3-12 Park brake
3-12 Dome (Interior) light
3-12 Luggage compartment light
3-12 Glovebox light
3-13 Combo cargo carrier

# FRONT SEAT ADJUSTMENT

## Forward/rearward

Lift the lever at the front of the seat upwards then slide the seat forward or backward. After releasing the lever, try to move the seat back and forth to check that the catch has locked in position.

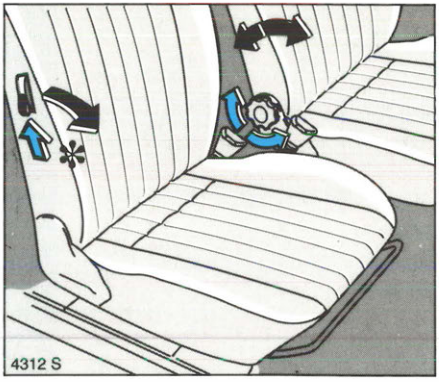
Never adjust the driver's seat whilst driving. The seat could move suddenly and cause the driver to lose control.




## Folding front seat (2 door models) and recline/incline (all models)

If your vehicle is a 2 door model, the back of the seat can be folded forward by moving the lever illustrated.

To adjust the angle of the back of the seat, turn the large, toothed wheel illustrated.

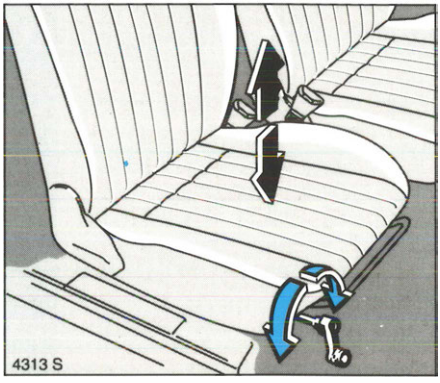



**CAUTION:**

**To avoid reducing the effectiveness of seat belts it is recommended that the reclining seats be used in no more than a semi-reclined position when the car is moving. The fully reclined position should be used only when the car is stationary.**

## Height adjustment (if fitted)

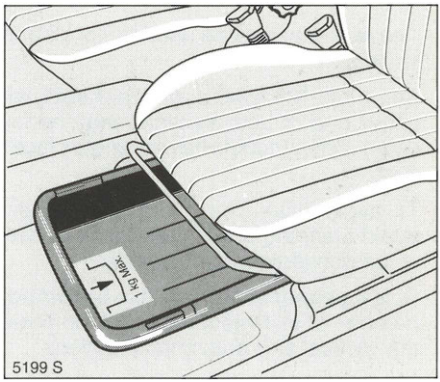
Turn the crank handle to adjust the height of the driver's seat cushion, in respect to the pedals and steering column.



# SEAT ADJUSTMENT

## Tray (if fitted)

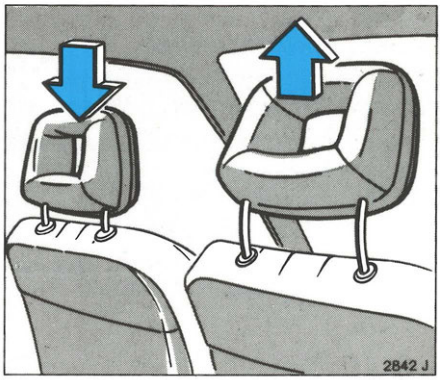
On some models a stowage tray is provided under the passenger's seat. To open, pull tray forwards. The weight of the tray's contents must not exceed 1 kg.



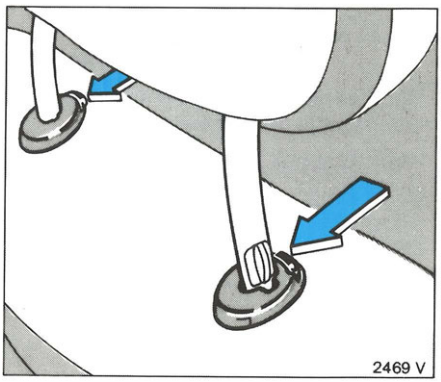

## Head restraint

To adjust height, pull up or press down.

The upper edge of the head restraint should be approximately at eye level - never at neck level.




To remove head restraint, release both locking springs while pulling up.



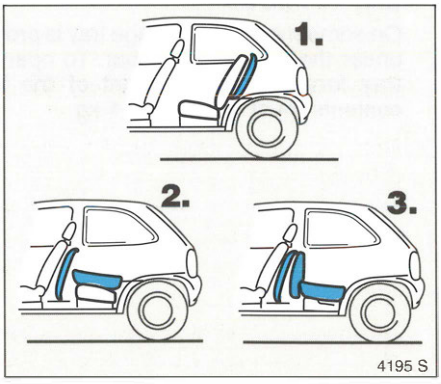
# REAR SEAT FOLDING

The rear seat may be used in 3 positions, as shown.

Some models have a *split* rear seat, where either one or both sections may be folded down. Other models have a single piece rear seat.

To avoid injury from passing cars, always avoid standing on the road side of the car when converting the rear seat.

Split type rear seats can also be locked in a number of intermediate positions between the vertical and horizontal positions.




POSITION 1.

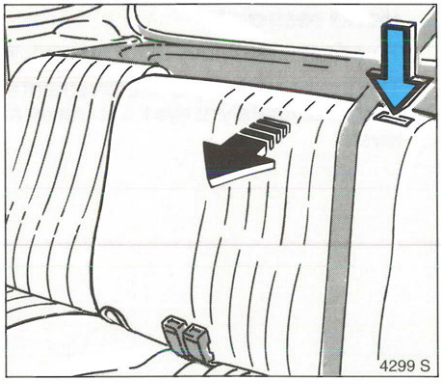
*folded parcel shelf*

Un-hook the cords of the parcel shelf cover. Then tilt the parcel shelf up 45° and pull out.

Push the lock button/buttons (at the top of the seat back) and fold the back/backs of the seat down to meet the cushion.

Place the cover behind the back of the seat.

Unfold the seat to the upright position and ensure it has locked in position.




POSITION 2.

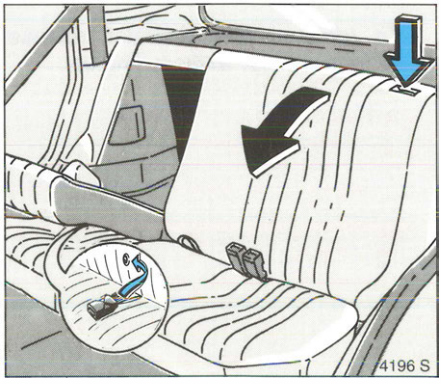
*seat folded down with parcel shelf forward*

Remove head restraints (if fitted) by pressing lock springs, refer previous page.

Hook seat belt buckles on back rests.

Push the lock button/buttons (at the top of the seat back) and fold the back/backs of the seat down to meet the cushion.

Undo parcel shelf (see position 1 above) and place behind the back of the front seats.



# REAR SEAT FOLDING

POSITION 3.

*fully converted*

Remove head restraints (if fitted) by pressing lock springs, refer previous pages.

Remove parcel shelf, refer position 1 on previous page.

Move driver's seat and front passenger's seat fully forward.

Hook rear seat belt buckles onto back rest.

A strap is provided at the centre of the rear seat, where the seat cushion meets the back rest. Grasp this strap and pull the seat cushion up towards the front of the car.

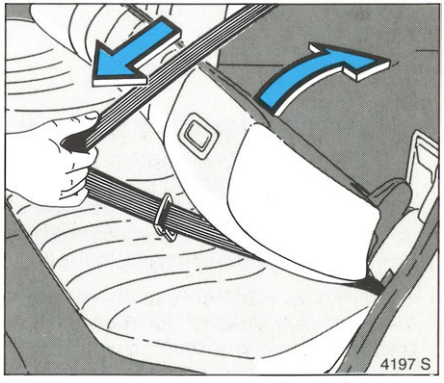
Push the lock button/buttons (at the top of the rear seat backs) and fold the back/backs of the seat down towards the front of the car.

Place the parcel shelf behind the back of the front seats.

**IMPORTANT**

When repositioning rear seats make sure that the seat belts are in front of the back rest, so that they are not trapped.

Also ensure that the seat is firmly locked back into the upright position by grasping and attempting to move it.

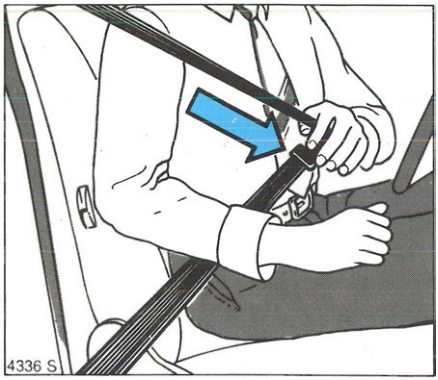


# SEAT BELTS

## Retractor belts

To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.



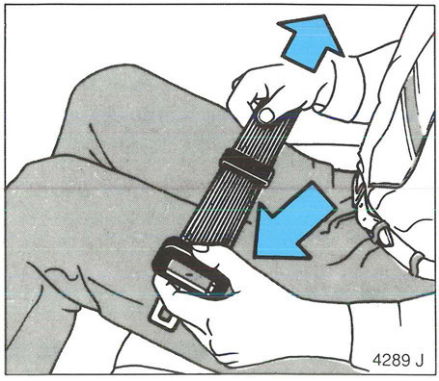

The emergency-locking retractor belt allows you to move freely while the car is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

## Lap belts (centre rear seat)

Settle yourself comfortably. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

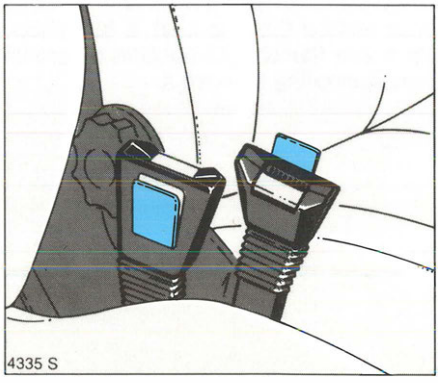
To adjust the length, press the top of the latch plate and pull the belt.




## Mechanical seat belt tensioners

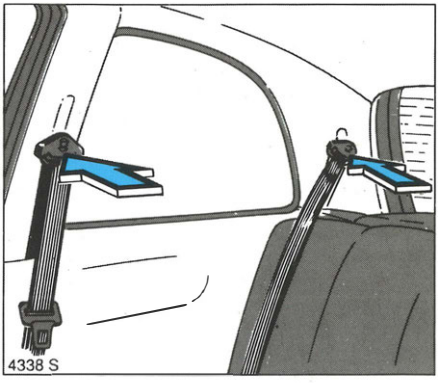
The front seat belt system incorporates (once-only) mechanical belt tensioners. In the event of a frontal collision the belt buckles are pulled downwards; the diagonal and lap belts are instantaneously tightened.

If the mechanical belt tensioners have been actuated the yellow indicator on the belt buckles become visible. Even though the seat belt (apart from this feature) may remain operational, the entire system *must* be replaced by a Holden Dealer.



# SEAT BELTS

## Seat belt height adjust (if fitted)




- Do not adjust while driving.
- Pull seat belt slightly out.
- Press belt guide (indicated by arrow in illustration).
- Move seat belt guide up or down, as required.
- Release belt guide at required position and ensure belt guide has clicked into position.
- Short people should select a low belt guide position, tall people a higher one. This will ensure, for both safety and comfort, that the webbing of the seat belt fits on the shoulder.

**WARNING:**

**Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.**

**Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.**

**Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.**

**It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious. Belts should not be worn with straps twisted.**

**Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.**

**No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**

**The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.**

# BARINA CHILD RESTRAINTS

## Infant and child restraints

CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE. In some States it is Law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with regular seat belts or an approved child restraint.

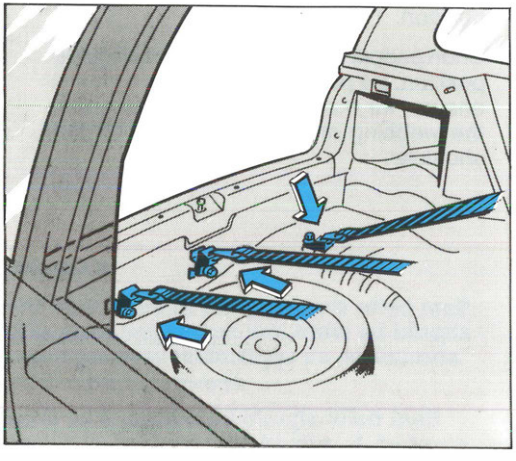
Where children are restrained with the regular seat belt and it is desired to raise their seating position this is to be done only by means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF A VEHICLE ACCIDENT.

## Child restraint anchorages

Barina models are fitted with anchorage points for child restraints. Anchorage points are located adjacent to the spare wheel well beneath the rear compartment trim panel, as shown.

*Australian passenger vehicles manufactured after January 1995 will already have an anchor fitting in one of the anchorage points shown on the right. The illustrations on the following page are for installing additional anchor fittings, using the bolts, spacers and washers supplied with a child seat.*

Combo models are not fitted with child restraint anchorage points, being classified as "light commercial" models.



**WARNING:**

**Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.**

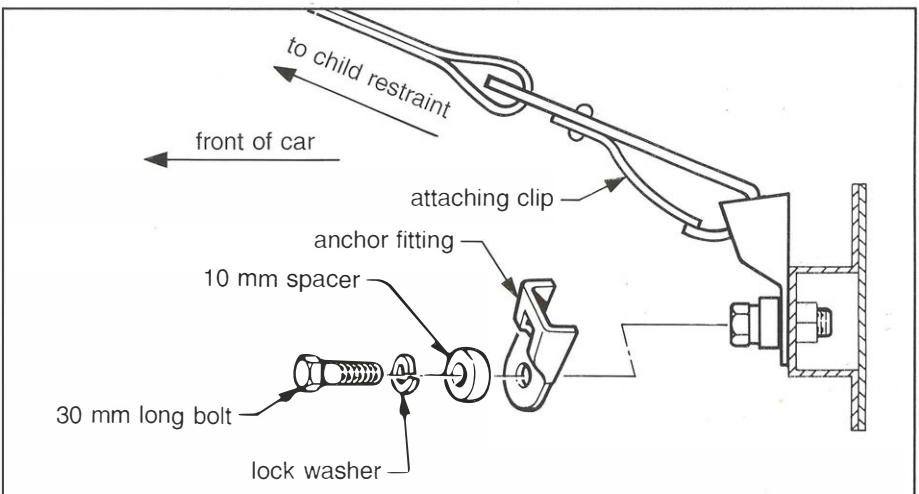
Only approved child restraint harnesses should be used on anchorage points. See your Holden Dealer for advice about the various types of approved child restraints available.

INFANTS UNABLE TO SIT BY THEMSELVES should be carried in an approved child seat restraint (capsule). Check with your local Infant Welfare Centre for availability.

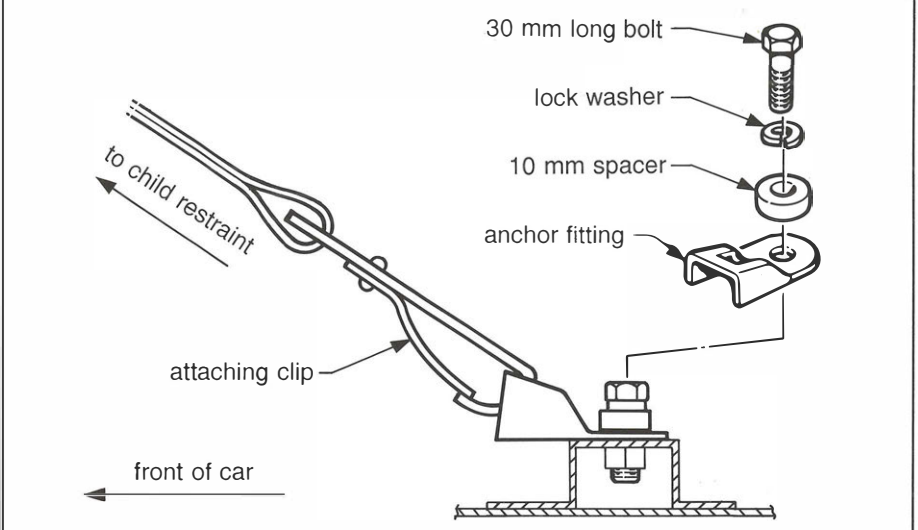
# BARINA CHILD RESTRAINTS

The illustrations below shows how to install anchor fittings into the locations shown on the previous page.

CAUTION: The anchor fitting is only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments). Older child restraints may not attach securely to this type of anchor.




REAR WALL OF THE LUGGAGE COMPARTMENT INSTALLATION (2 PLACES)



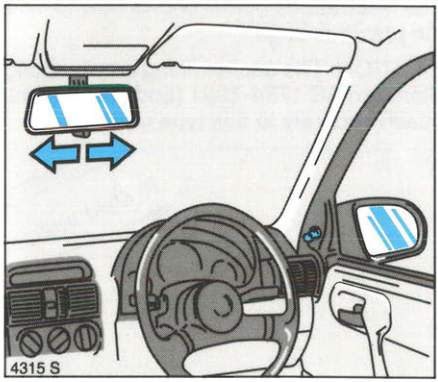

FLOOR PAN INSTALLATION (1 PLACE)

# MIRRORS

## Internal rear view mirror

Grasp mirror and swivel to adjust height.

Using the lever on the lower edge, tilt the mirror to reduce dazzle at night.




## Manual exterior mirrors

Barina: Grasp the lever inside the car and move the mirror up/down, and in/out, as required.

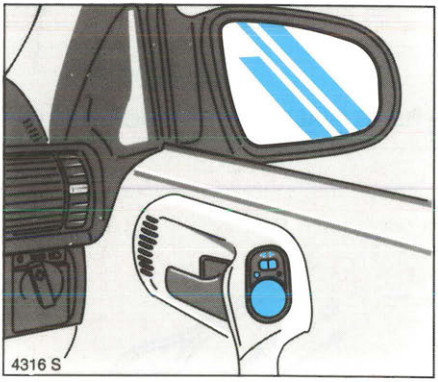
Combo: Grasp the mirror and move the mirror up/down, and in/out, as required.

## Electric exterior mirrors (if fitted)

Switch the top, 'rocker' switch to either left mirror or right mirror as required.

When the ignition is switched on, the larger, four way knob can then be used to adjust the angle of the mirror.

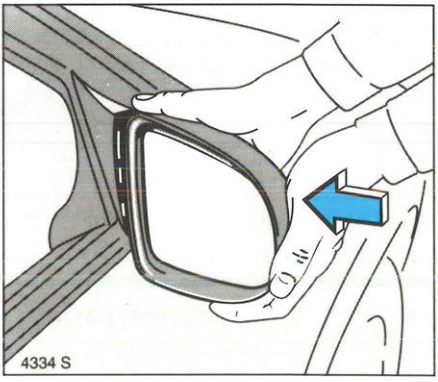
Electrically operated mirrors can be heated by pressing the button above the four way knob. A light next to the button will illuminate when the mirror is heating. Note that the heating will automatically switch off after 15 minutes.




Your passenger's side exterior mirror may be of the convex shaped type, therefore making objects appear further away than they actually are.

For the safety of passengers and pedestrians, exterior mirrors will be released from their support under accident-like impact.

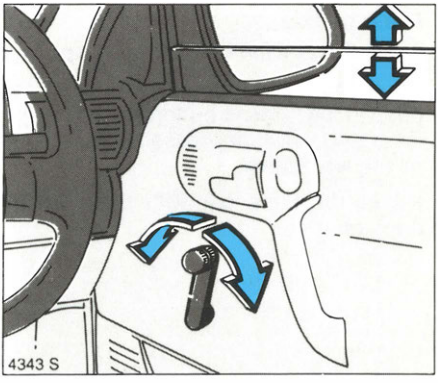
To realign mirrors into their supports, hold the mirror parallel to the mirror support and lock with a blow on the outer edge of the mirror.



# WINDOWS

## Manual windows

Turn the handle on the door to raise or open the windows.

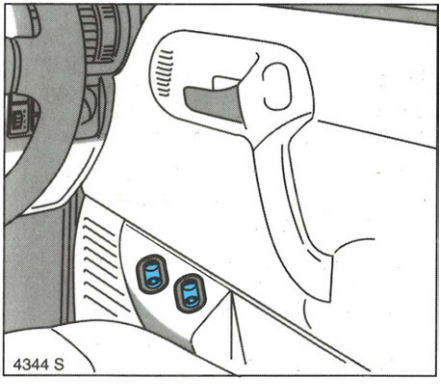



## Electric windows (if fitted)

Two switches are provided on the drivers door, one for the passenger's window and one for the driver's window. An additional switch for the passenger's window is located on the passenger's door.

Lights in the switches glow when the switches are operational.

To move the window in stages, tap the appropriate switch. For automatic opening or closing (driver's side only), keep switch pressed; to stop automatic operation, tap the switch again. If the window glass encounters resistance above the middle of the window during automatic closing, it is immediately stopped and the window opened slightly.




To avoid risk to children (through incorrect use of the electric windows), the driver should remove the ignition key when leaving the car.

To operate the windows after power disruption, due to battery disconnection etc., it may be necessary to:

- close doors, switch ignition ON
- close window and continue to keep rocker switch pressed for a least 5 seconds.
- follow the same steps for the other window

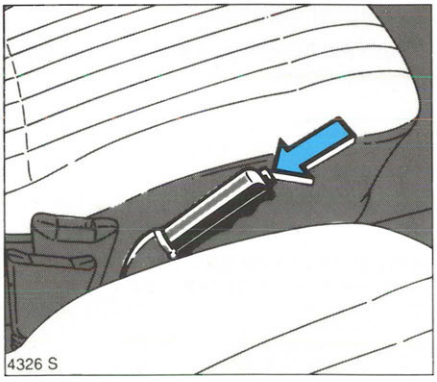
# PARK BRAKE & INTERIOR LIGHTS

## Park brake

To apply, pull the lever straight up.

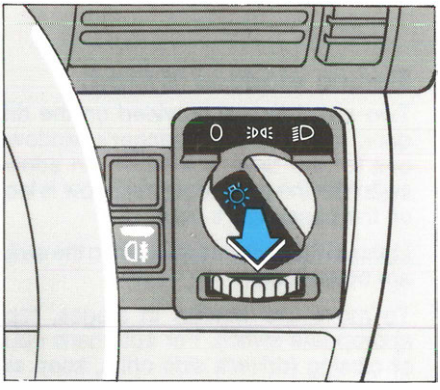
To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.

Never drive the car with the park brake applied.



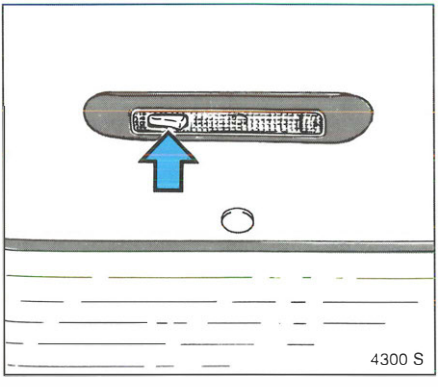

## Dome light

The dome light comes on when either the light switch is pulled out or a door is opened.



## Rear reading light (if fitted)

| | | |
|---|---|---|
| Switch to left | = | off |
| Switch to centre | = | switched on when a rear door is opened |
| Switch to right | = | on |




## Luggage compartment light

The luggage compartment light comes on when the tailgate is opened.

## Glovebox light

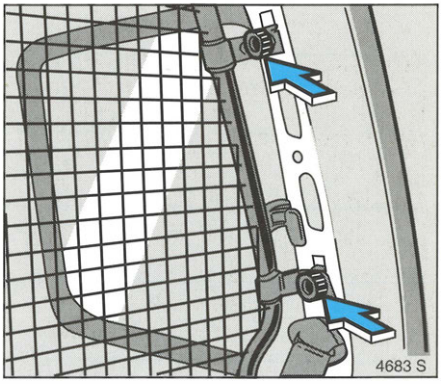
The glovebox light comes on when the glovebox lid is opened and the ignition is on.

# COMBO CARGO GRILLE

The cargo should be secured so that it cannot slip and must not obstruct the driver's view in the mirror.

The cargo grille helps protect the passengers if the cargo does move, for-instance in an accident or sudden braking. It should therefore be in position at all times when carrying goods in the rear compartment.

The grille can however be removed or reinstalled via the screws shown in the illustration.



# Notes

CHAPTER 4

# Driving

Page

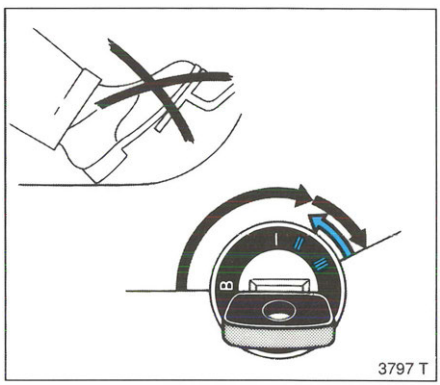

4-2 Engine starting
4-2 Running-in
4-3 Safety
4-4 Automatic transmission
4-6 Manual transmission
4-7 Reducing fuel consumption
4-8 Driving precautions
4-8 Snow chains
4-9 (ABS) Anti-lock Brake System

# ENGINE STARTING

1. Apply the park brake firmly and release only after you have started the engine and are ready to drive off.
2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.

   AUTOMATIC (if fitted): Move the shift lever to P (park) or N (neutral) position. The engine will not start if it is in any other position.
3. Start the engine as outlined below (with your foot off the accelerator).

   For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts. YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO, OR DURING, STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.



3797 T

## Warm ups and excessive idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively by driving on the road.

However, speed should be moderate until normal operating temperature has been reached.

You should also avoid excessive engine idling. If your have to wait for more than a minute, turn off the engine to conserve fuel.

## Running-in (for the first 1,000 km).

Drive your car at various speeds. **Do not use full throttle.** Never allow the engine to labour.

Make good use of all gears. Depress the accelerator pedal a maximum of around three quarters of the available pedal travel in all gears and drive ranges.

In the interests of the engine and final drive, do not drive faster than three quarters of maximum speed.

Unless necessary, try not to brake too hard during the first 200 km after new brake pads have been fitted.

## Switching off the engine

If the engine temperature is very high, e.g. after driving in hilly areas, then allow the engine to idle for approximately two minutes (in order to prevent heat accumulation) before switching off the engine.

# SAFETY

## Before entering the car

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation.
3. If you intend to reverse, check that the area behind your car is clear.

## Before driving off

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

## Parking

1. Apply the park brake.
2. Place manual transmissions in REVERSE or FIRST gear and automatic transmissions in PARK.
3. Shut all windows.
4. Switch off exterior lights.
5. Turn ignition key to LOCK and remove the key.
6. Lock all doors.

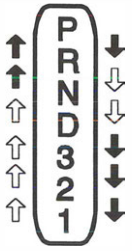
**CAUTION:**

**Be careful where you park or drive. As with any car, do not park or operate this car in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.**

# AUTOMATIC TRANSMISSION

The transmission lever is mounted on the console, between the front seats. Raise the release bar below the T-bar handle when shifting into any position indicated by the black arrow.

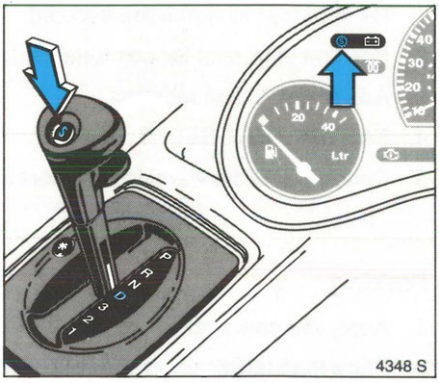
You may shift without raising the handle into any position marked by the outline arrow.




## Sporty/economy drive

Tap the button on top of the T-bar to switch between sporty and economy drive programmes. When the sporty programme (higher engine speeds) is selected the indicator light will be illuminated on the instrument panel.

Note that after the engine has initially been started and Drive selected, the economy programme is automatically selected.



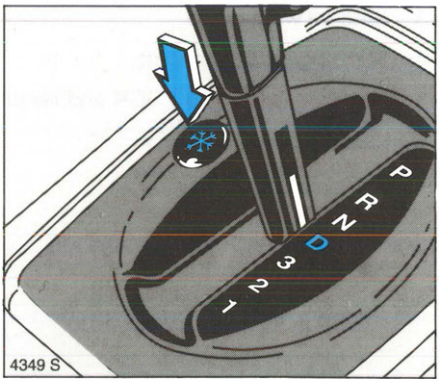

## Starting- off aid (if fitted)

In the event of starting-off difficulties on slippery roads, ensure the T-bar is in Drive and press the button indicated.

The vehicle will start off in third gear.

The starting off aid is switched off:

- automatically above 80 km/h.
- by pressing the button indicated
- by moving the T-bar away from the Drive position to P, 3, 2, 1.
- by turning the ignition off.
- holding the accelerator pedal down to the floor for longer than two seconds.



# AUTOMATIC TRANSMISSION

P (park) This stops the front wheels from turning and so should be selected (together with the park brake) when leaving the car. Never select P until your car is fully stopped.

R (reverse) Never select R until your car is fully stopped. Reversing lights will operate when R is selected and the ignition is on. After reversing, make sure the car has fully stopped before proceeding forward again.
If R is selected when the car is travelling forward the transmission will not shift into reverse gear until travelling speed falls below 7 km/h.

N (neutral) This is the out-of-gear position. You may then restart a stalled engine while the car is still moving.

D (fourth) This is the most effective position for normal or freeway driving. The drive position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to 4) for the load and driving conditions.

3 (third) Third is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift to first, second or third gear as conditions require. Drive (4th gear) is excluded.

2 (second) Use this position when going down a moderate gradient where you want to slow down a little without using the brake. The transmission will shift to first or second gear as required. Move the lever back into the Drive position to return to normal driving.

1 (first) Use this position when strong braking effect is needed on a steep gradient. Remember to move the lever back to Drive position so that the transmission will again up shift into higher gears.

If 1st gear is selected at too high a speed then the transmission remains in 2nd gear until you have slowed down sufficiently.

## Notes

- Don't rev the engine with the brakes on in either 1, 2, 3, drive or R. This will overheat the transmission.
- Don't rev the engine to hold the car on a slope. Use the brakes.
- Don't coast the car in N - this lessens your control and the engine braking power.
- Refer Chapter 7 when checking automatic transmission fluid level.
- NOTE: The engine will not start unless the selector is in P (park) or N (neutral).
- If the car suddenly will not accelerate as usual, or will not shift down to a lower gear when you press the accelerator pedal to the floor, or the Sporty drive program indicator light flashes, then a fault is indicated in the transmission. You should use the T-bar to manually shift through the gears (1, 2, 3, D). Consult a Holden Dealer as soon as possible.

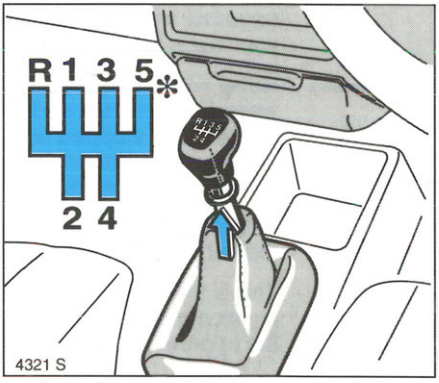
# MANUAL TRANSMISSION

This system has 5 forward gears and a reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.

When selecting fifth gear you must shift the gear lever sideways against light spring pressure in order to pass into the gear.

To select reverse gear, lift the ring beneath the knob on gear shift lever and move the lever into the reverse position.

If the gear does not engage easily, then release and depress clutch pedal before trying again.




## Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the car has completely stopped. A slight pause (at least 3 seconds) between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the backup lights will operate.
- Shift the gear lever with a moderate effort to allow time for the transmission synchronizers to work properly.
- Do not drive with your foot resting on the clutch pedal. This will cause substantial clutch wear.
- When stopped on an incline do not hold the car by slipping the clutch. Use the park brake or brake pedal.
- To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.
- Do not over-speed the engine when shifting down to the next lowest gear.

# REDUCING FUEL CONSUMPTION

1. Car Maintenance

   Maintain your car in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedule, refer Chapter 12. This will ensure items such as spark plugs, air cleaner, engine idle speed etc. are maintained for least fuel consumption and peak engine performance.

2. Tyre pressure

   Keep the tyres at the recommended pressures. Under-inflated tyres creates extra rolling resistance which contributes to increased fuel consumption, refer Chapter 7.

3. Wheel alignment

   Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

4. Accelerating, driving & braking

   Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

   Drive the car at steady speeds where possible (after run-in). It is desirable to achieve top gear operation as soon as possible, but under no circumstances should you force the engine to labour in top gear.

5. Change down!

   When decreasing speed, shift down into the next lowest gear. Do not slip the clutch with a high revving engine. This is especially important when hill climbing.

6. Roof racks and ski-holder

   Roof racks and ski-holders can increase fuel consumption by approx. 1 litre per 100 km, due to the increased air resistance. Remove them when they are not needed.

7. Brake pedal

   "Riding the brake" by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake pads faster, damage the brakes and waste fuel.

8. Loading

   Unnecessary weight increases fuel consumption, especially when accelerating. In city traffic, a load of 100 kg can increase fuel consumption by 0.5 litres per 100 km.

# DRIVING PRECAUTIONS

## Brakes

- Power assisted brakes, which are fitted to your car, utilise vacuum from the engine when it is running. Never let the car run down steep grades without the engine running. Never coast with the engine switched off.
- Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.
- Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.
- Your seat should be positioned so that you can reach the brake pedal satisfactorily under all braking conditions.

## Power steering (if fitted)

- If the power steering is rendered ineffective because the engine has stalled, the drive belt broken or if the pump reservoir is empty of fluid, the car can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

## Loose articles

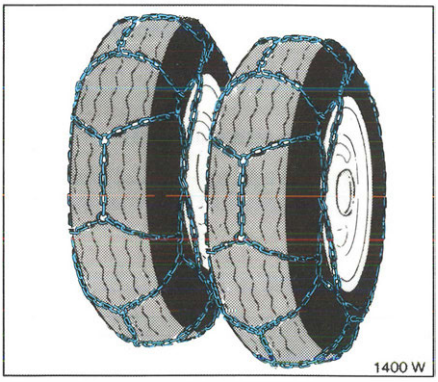
Do not leave loose articles or luggage in the passenger compartment. Whenever possible, loads stowed in the luggage compartment should be firmly secured.

## Tyre traction

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and car speed should be adjusted to the road conditions.

## Snow chains

- *Due to lack of clearance,* ***snow chains can not be fitted to 185/60 R14 tyres*** *(standard on GSI models).*
- Barinas are 'front wheel drive' vehicles, and as such, snow chains are only fitted on the front (driving) wheels.
- They must be fitted symmetrically on the tyre to ensure that they are seated concentrically. Only fine-linked chains, not protruding more than 15 mm on the tyre tread and inside of the tyre (including the chain lock) should be used.
- Depending on design, large hub caps may come into contact with parts of the chains. In such cases, remove the hub caps.
- Tyre chains can only be used at speeds up to 50 km/h and, when travelling on roads that are free of snow, they should only be used for brief periods since they are subject to rapid wear on a hard road and may snap.


1400 W

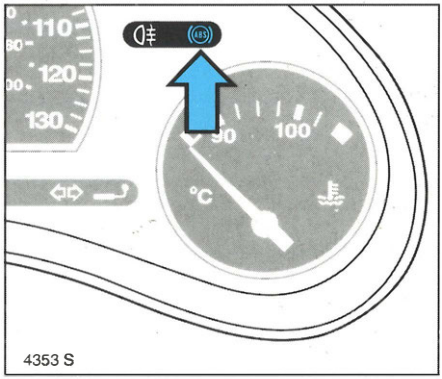
# ABS (if fitted)

ABS (Anti-lock Brake System) continuously monitors the vehicle's brake system and prevents the wheels from locking, irrespective of the road conditions and tyre grip. It starts to regulate the braking effect as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

However, DO NOT let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by safe driving.

In an emergency braking situation the driver should keep full force on the brake pedal, without 'pumping' the brake pedal. 'Pumping' the brake pedal can reduce brake efficiency when ABS is controlling the braking.

The ABS warning light is illuminated for a few seconds when the engine is switched to position II (ignition ON). If it does not go out, or if it comes on during driving, there is a defect in the ABS. The vehicle's brake system remains operational but without ABS assistance. You should consult your Holden Dealer as soon as possible.




The braking effect is regulated by the ABS every millisecond during braking.

When your vehicle is in a critical braking condition ABS will make itself noticeable through pulsing of the brake pedal and the noise of the regulation process, thereby reminding you to match your speed to the road conditions, even though it is keeping control of the braking.

Shortly after driving off again the system performs a self check, which may be audible.

## Notes

CHAPTER 5

# Fuel

Page


5-2 Carbon monoxide caution
5-3 Petrol filling
5-4 Fuel Tank capacities
5-5 Emission Control
5-6 Reducing fuel consumption

# PETROL

## EXHAUST WARNING - CARBON MONOXIDE POISONING

**Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.**

**You could inhale the gases if the exhaust system on your car is faulty.**

**To protect against exhaust gases entering the car, the exhaust system and body should be inspected:**

**- each time the car is serviced**

**- whenever a change is noticed in the sound of the exhaust system**

**- whenever the exhaust system, underbody or rear of the car is damaged.**

**Take the car to your Holden Dealer if you think your car needs inspecting for any of the above reasons.**

**DO NOT SIT (OR LEAVE THE CHILDREN OR PETS) IN A PARKED CAR FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE CAR.**

**Driving with the hatch open is not recommended. If you *must* travel with hatch open, close all windows, ensure that the heater controls are set to outside (rather than re-circulate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.**

# PETROL

**CAUTION:**

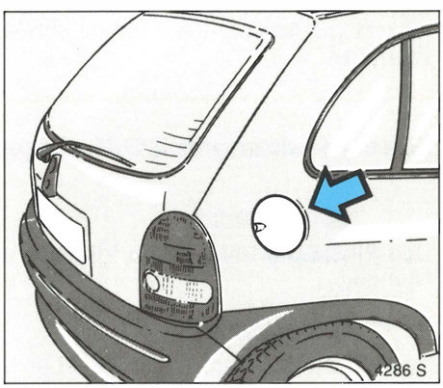
- **Petrol should be regarded as extremely flammable and highly explosive.**
- **Always turn off the engine when refuelling.**
- **Do not smoke or allow open flames or sparks near the car when refuelling.**
- **If petrol fumes are smelt while driving, the cause should be found and corrected without delay.**

The petrol filler is located on the driver's side of the vehicle, for both Barina and Combo models.

*If central locking fitted:*

The fuel filler is unlocked when the doors are unlocked and locked when the doors are locked. Remove filler cap by turning anticlockwise.

After refilling, tighten the cap clockwise until a clicking noise is heard and close flap.




*Without central locking:*

Open the flap by hand, insert the key in the fuel cap and turn anticlockwise.

After refilling, tighten the cap clockwise until a clicking noise is heard; turn key clockwise, remove key and close flap.

Over filling of the petrol tank can affect the evaporative Emission Control System and can also result in a smell of petrol inside the vehicle. Therefore:

1. Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off (or petrol blows back) - as this allows room for the petrol to expand inside the tank.

2. It is permissible to "trickle fill" petrol tanks when vehicles are to be driven for more than 50 km straight after the tank is filled. However, this is not recommended on hot days (over 30°C).

Wipe off any overflowing petrol immediately.

# PETROL

**Tank capacities** Barina = 46 litres
Combo = 50 litres

## Petrol filler nozzle restrictor

To help the atmosphere, your vehicle has been designed to operate on UNLEADED PETROL. A petrol nozzle restrictor is fitted to ensure that UNLEADED petrol is used. This allows the thinner, unleaded petrol nozzle to open the hinged flap, so that petrol can be added to the tank. The leaded petrol nozzle is wider and therefore cannot open the flap. The use of fuel other than unleaded fuel will seriously damage the fuel system of your vehicle (particularly the catalytic converter and oxygen sensor) and may void your Warranty.

## Petrol requirements R.O.N. (Research Octane Number)

GSI model only

Use **PREMIUM** UNLEADED PETROL of 95 octane rating or more (Research Octane Number).

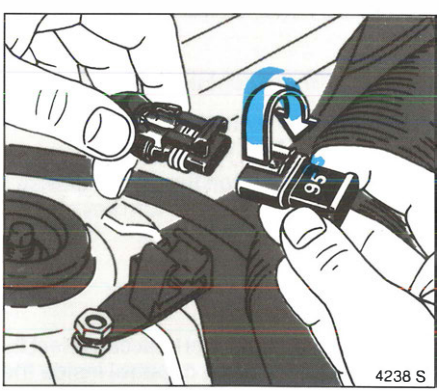
all other models:

The fuel coding plug, is marked 95 on one side, 91 on the other. This designates the octane rating of the fuel being used in the vehicle.

You may elect to use either UNLEADED 91 octane rating (Research Octane Number) or UNLEADED 95 octane rating.

The programme number (91 octane or 95 octane) can be seen in front of the locking clip. If petrol with the other octane number is to be used, allow the fuel to run low, fill tank, make sure ignition is switched off, release coding plug from retainer, open locking clip, remove coding plug, turn plug over, re-insert into retainer and replace into vehicle.

You should never run the vehicle with low octane (91 rating) petrol if the coding plug is turned to 95 octane.



# EMISSION CONTROL

Your car is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, produce photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your car are:

1. **Evaporative Emission Control System** (Australian Cars Only)

   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.

2. **Crankcase Emission Control System**

   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.

3. **Exhaust Emission Control System**

   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian cars have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your car's service manual and/or the emission label inside the engine compartment (on the passenger side strut tower) of your car.

## OWNER RESPONSIBILITY

Cars sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of your car must NOT be modified in any way. Any change to the Manufacturer's design may increase the emissions or otherwise defeat the intent of the regulations.

**ANY PERSON WHO REMOVES, MODIFIES OR HINDERS ANY PART OF THE EMISSION CONTROL SYSTEM FITTED TO A CAR WILL BE CONTRAVENING REGULATIONS. IT IS ALSO UNLAWFUL TO DRIVE SUCH A CAR.**

## MAINTENANCE REQUIREMENTS

To ensure continuing compliance with the regulations you must maintain your car's emission control system as per your car's service manual, at the frequency shown in the Holden's Maintenance Plan.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

# HOW TO REDUCE FUEL CONSUMPTION

## ENGINE

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedule, refer page 12-4. This will ensure items such as the spark plugs, air cleaner, engine idle speed etc. are maintained for minimum fuel usage and peak engine performance.

## TYRE PRESSURE

Keep the tyres at the recommended pressures. Under-inflated tyres creates extra rolling resistance which contributes to increased fuel consumption.

## WHEEL ALIGNMENT

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

## WARM UPS AND IDLING

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

## ACCELERATING, DRIVING AND BRAKING

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

Drive the car at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

## RIDING THE BRAKE

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

## AIR CONDITIONING

Turn off the air conditioning, when not required.

## Notes

# Notes

CHAPTER 6

# Emergencies

Page


6-2 Accidents

6-3 Medical assistance

6-4 Flat tyre

6-8 Engine overheating

6-10 Flat battery

6-12 Air bag (if fitted)

6-13 Towing a disabled car


Remember that your new car is covered for 3 years by the 24 hour HoldenWise Roadside Service, refer page 9-8.

# ACCIDENTS

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.

The following notes may help.

## Part 1. Accident - being involved.

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Send information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his or her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

## Part 2. Accident - being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator.
- Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons. (See Part 3. Medical assistance).
- Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

# ACCIDENTS

## Part 3. Medical assistance

Keep calm and think clearly.

Your experience may not be much but do your best. Don't just stand by and let an injured person die.

- Look after the unconscious person first. Check for breathing. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.
- Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.

Lay the person on one side and - if it will not aggravate any injuries - then:

Bend the uppermost knee until the thigh is at right angle to the body.

Bend the uppermost arm and elbow so that the hand lies near the face.

Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

*Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.*

# FLAT TYRE

If using a jack other than the one supplied with the vehicle, refer Chapter 7 for lifting positions.

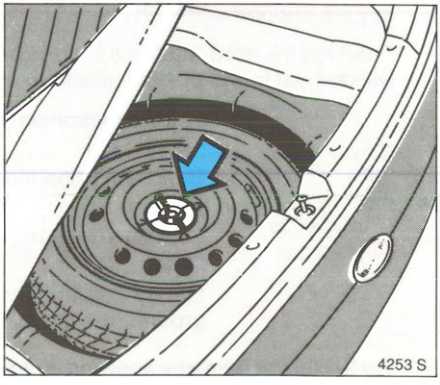
**CAUTION:**

- **Use the jack only for lifting the vehicle when changing wheels.**
- **Never get beneath the vehicle when it is only supported by the jack.**
- **Do not start or run the engine while the vehicle is only supported by the jack.**
- **All passengers should be out of the vehicle when it is being jacked.**
- **Use the jack only at the designated lifting points. Use in other locations could damage the vehicle.**
- **The vehicle should only be jacked on hard, level surfaces.**

1. Park on level surface and set parking brake firmly.
2. Remove the ignition key and place manual transmissions in REVERSE gear or automatic transmissions in PARK.
3. Remove the jack and tools. With Barinas these are located under the spare wheel, with Combos they are located behind the passenger's and driver's seats.
4. Remove the spare wheel:

   Barina - The spare wheel is stored in the hatch area under the floor cover and is secured by a plastic wing nut.

   Note that the spare 'emergency' wheel for GSI models may have a different appearance to the wheels on the vehicle.



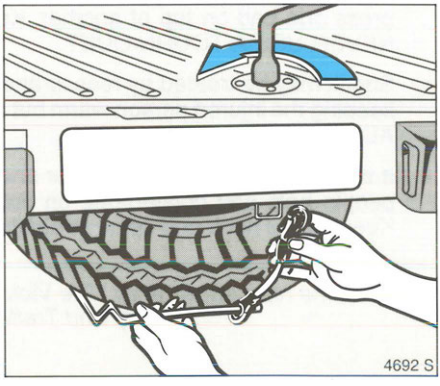

   Combo - The spare wheel is stored under the rear of the vehicle.

   First loosen the bolt in the load compartment floor using the wheel bolt wrench (located behind the front seats).

   Then, from underneath, lift the wheel retainer and disengage.

   Undo the securing strap.

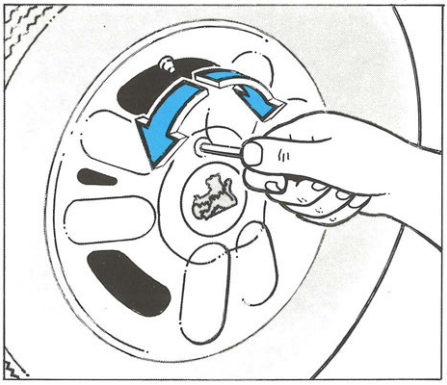
   Lower the wheel retainer and remove the wheel.



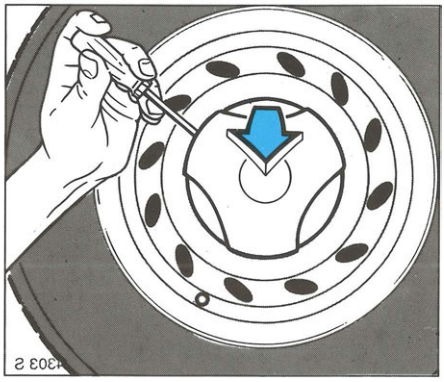
## FLAT TYRE

5. Chock the wheel diagonally opposite the flat tyre by placing wedge blocks, any available blocks of wood or rocks behind and in front of it.
6. Remove the wheel trim :

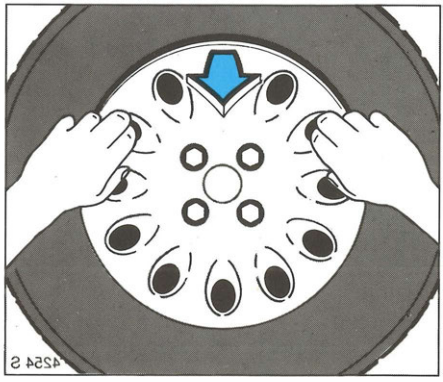
   If fitted with alloy wheel lock, first unlock and then lift off wheel cover.



Insert screwdriver in the recess and remove the hub cap.

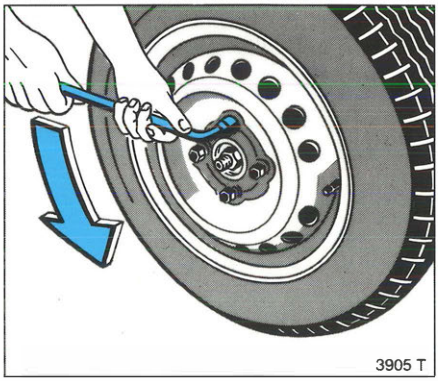


On cars with wheels covers, remove by hand, as shown.



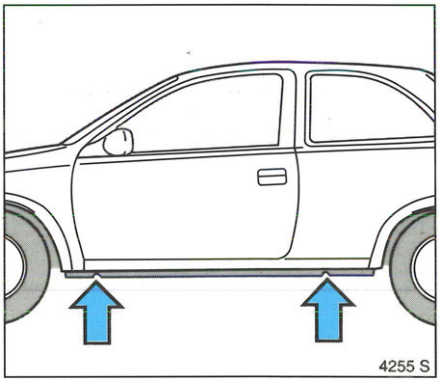
## FLAT TYRE

7. Loosen (but do not remove) the wheel bolts with wheel bolt wrench.




8. Depressions on the lower edge of the car's body indicate the points where the jack is to be placed.

   On some models the jacking points are covered by flaps, which must be removed before placing the jack in position.

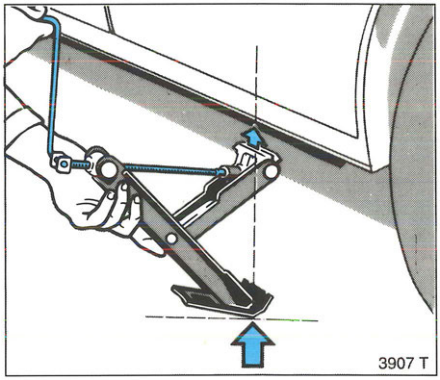



9. Position the jack in the recess that is nearest the flat tyre.

   Ensure that the jack claw surrounds the semicircle cutout in the car.

**CAUTION:**

**Failure to position the jack as described above could result in serious personal injury or car damage caused by the car slipping off the jack.**



## *FLAT TYRE*

10. Raise the vehicle by turning the crank handle, until the tyre is clear of the ground.

11. Remove the wheel bolts and place together in a dry spot to avoid getting dirt in the threads.

12. Remove the wheel from the vehicle and change it over with the spare.

13. Replace the wheel bolts and tighten by hand. Then, with the wheel wrench, lightly tighten in a crisscross sequence.

14. Lower the vehicle completely and remove the jack.

15. Fully tighten the wheel bolts with the wheel wrench in a crisscross sequence.

16. Press on the wheel/wheel bolt trim. Wheel covers have a valve symbol on the rear of the cover, which should point towards the valve.
Note that on light alloy wheels you should insert the pin on the back of the hub cap into the corresponding hole in the wheel.

17. Stow away wheel, tools, and jack:

    Barinas: The tools, jack and wheel are stored in the hatch area, under a cover in the floor.

    Combos: Place the wheel in the spare wheel retainer under the rear of the vehicle and lift.

    Attach securing strap.

    Lift wheel retainer and secure in position.

    Tighten bolt in load floor.

    Store tools and jack behind front seats.

**CAUTION:**

**As soon as possible after changing a wheel, you should have the wheel bolts tightened with a torque wrench to 110 Nm and have the new wheel balanced on the vehicle.**
**Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern. Improperly tightened wheel bolts could eventually allow the wheel to come off while the vehicle is moving!**

# ENGINE OVERHEATING

**CAUTION:**

**Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving over to the right, by steam escaping from under the bonnet, a ioss of power or a loud knocking or pinging noise.**

**Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury or vehicle damage.**

Pull out of the traffic as soon as possible and stop the vehicle. Leave the engine idling and the park brake applied while you get out and check that the cooling fan is working.

**CAUTION:**

**Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.**

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes STOP the engine and remove the ignition key.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

IF YOU FIND A MAJOR LEAK OR FIND OTHER PROBLEMS THAT MAY HAVE CAUSED THE ENGINE TO OVERHEAT, DO NOT RUN THE ENGINE UNTIL THESE PROBLEMS HAVE BEEN CORRECTED.

If you do not find anything wrong then you should check the engine coolant level in the surge tank.

**CAUTION:**

**Do not remove cooling system caps if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.**

When the engine has cooled sufficiently, remove the surge tank cap as follows:

# ENGINE OVERHEATING

Cover the surge tank cap with a thick cloth and slowly turn anticlockwise and remove.

Top up the surge tank with clean water to the centre weld joint WHEN THE ENGINE IS IDLING.

Replace the cap and leave the engine idling for a few minutes.

If, after taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the car attended to, as soon as possible, by a qualified mechanic.

Note that with this type of sealed, pressurised cooling system there should be very little loss of coolant. If the surge tank is low a leak is indicated. Therefore you should see your Holden Dealer as soon as possible to fix the leak.

The engine may temporarily operate at high temperature during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

You should avoid operating your car for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer Chapter 7, which gives maintenance instructions to help protect your cooling system from overheating.

# FLAT BATTERY

**CAUTION:**

**DO NOT attempt to "push start" or "tow start" this car, as it is fitted with a catalytic converter and if uncombusted fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire.**

If your car will not start due to a discharged battery, it can often be started by using energy from a battery in another car - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your car that you leave the starting to a competent mechanic.

## Jump starting

**CAUTION:**

**Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:**

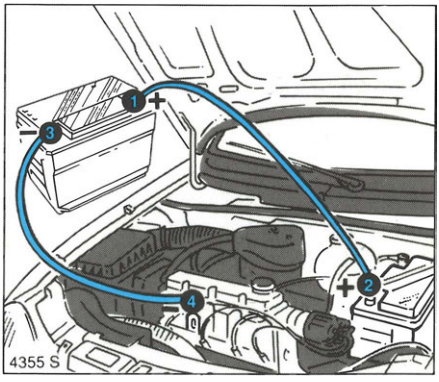
- **Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.**
- **Do not smoke near a battery.**
- **Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.**
- **Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paint and fabrics if not washed off immediately.**
- **Be sure any batteries that have filler caps are properly filled with fluid.**
- **Remove rings, metal watch bands and other metal jewellery before working around the battery.**
- **Carefully follow each step in the jump starting procedures.**
- **Never use a quick charger to start your engine.**
- **Do not lean over the battery during jump starting.**

# FLAT BATTERY

- The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle (that is being used to jump start the flat battery) must be the same voltage and also have a negative earth. The battery capacity of charged battery must not be substantially lower than that of the discharged battery. So, check the specifications in the other vehicle's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used.
- Position the two vehicles so that they are NOT touching and apply the park brakes. Automatic transmissions are to be placed in PARK and manual transmissions placed in NEUTRAL. Turn off ignition and ll lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.

**Connect the leads in the order shown in the picture**

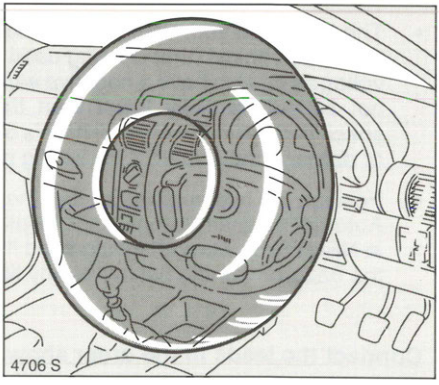
1. Attach one end of the first jumper cable to the positive terminal of the other vehicle's battery (identified by "+" or "P" on the battery case, post or clamp).
2. Connect the other end of the same cable to the positive terminal of your vehicle's battery.
3. Attach one end of the second jumper cable to the negative terminal (identified by "-" or "N" on the battery case, post or clamp).
4. Connect the other end to a solid stationary, metallic point on your vehicle's engine. DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF YOUR VEHICLE'S BATTERY! The connection should be as far away from the discharged battery as possible.




- When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.
- Start the engine in the other vehicle and run the engine at a moderate speed. Then start the engine in your vehicle. Attempts to start the engine with the discharged battery should be made at intervals of one minute and should not last longer than 15 seconds.
- After starting, allow both engines to idle for approx. 3 minutes with the leads still connected.
- Leave the engine running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

# AIR BAGS (if fitted)

The airbag system is identified by the word "Airbag" on the steering wheel and above the glovebox.



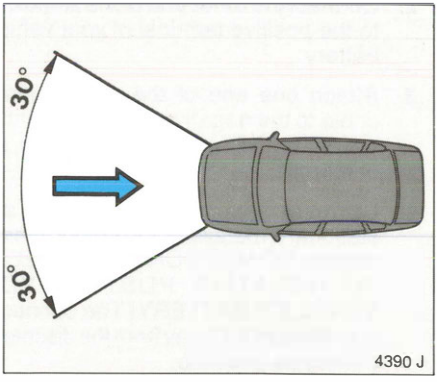

If your vehicle is fitted with driver and passenger air bags they will operate as a pair - they are triggered simultaneously.

If your vehicle is involved in a severe front end collision, the air bags will inflate, assisting the seat belts to restrain forward body movement.

An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

The air bags will then deflate - the whole process *only taking a moment.*

The air bags assist, but do not replace the seat belts. The air bags are not designed to inflate if the vehicle is hit from the rear or side or the vehicle overturns. *Seat belts (by Law) should be worn by all passengers whenever the vehicle is moving.*




*Air bags will inflate if the vehicle is struck hard within the shaded section. Air bags will not inflate if the vehicle is struck from side, rear, or in some rollovers....always wear a seat belt.*

Air bags inflate with great force. If you are too close to an inflating air bag it could seriously injure you. Seat belts help keep you in position for air bag inflation in a crash.

The light on the instrument panel will glow when the ignition is switched ON. This is to indicate that the air bags are operational. If the light *does not* show when the ignition is switched to ON, or if it comes on when driving, you should contact your Holden Dealer.

# *AIR BAGS (if fitted)*

After use the whole air bag system will have to be replaced by your Holden Dealer.

The system should also be inspected by a Holden Dealer if the steering wheel or dash board area is scratched, cracked or damaged. Remember that the horn pad must not be covered with adhesive or any other material, as this may hinder air bag operation.

**CAUTION:**

If a passenger's side air bag is fitted, the dash board area must be kept clear with nothing around this area or hanging from the sun visor.

Extensive design and testing has gone into the air bag system. It is extremely reliable and has very little chance of accidental inflation. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. Any work to the electrical system, steering column, dash board area, steering wheel or air bag system should *only* be carried out by an authorised Holden Dealer.

BULL BAR NOTE: Fitting a "bull bar", or making other modifications to the front of the vehicle, may change the impact speed which would normally cause the air bag to inflate, reducing its effectiveness.

## Passenger's side air bag and child restraints

**CAUTION:**

NEVER install a rear-facing child restraint in the front seat of vehicle with a passenger's side air bag. The child could be seriously injured if the passenger's side air bag inflates, as the back of a rear-facing child restraint would be very close to the inflating air bag.

You may install a forward-facing child restraint in the front seat, but ALWAYS move the passenger seat as far back as it will go.

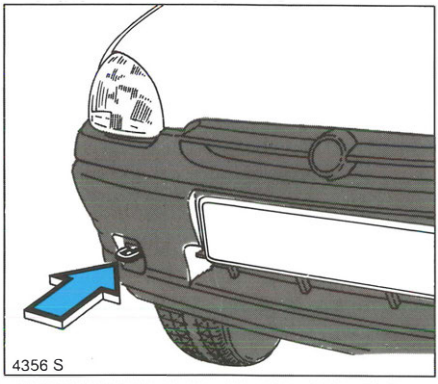
It is always better to install a child restraint in the rear seat.

# TOWING A DISABLED VEHICLE

## Towing a disabled Barina or Combo

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage during any towing operation. State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

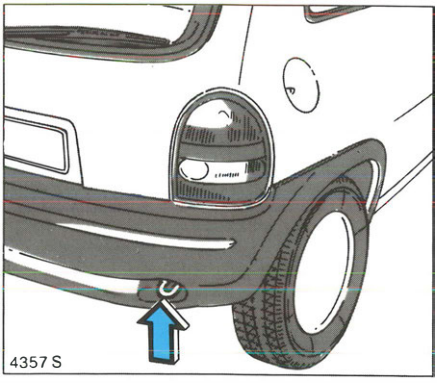
- Attach a tow rope to the eye, illustrated. Do not attach to the bumpers or brackets.


4356 S

- Place transmission in neutral/N position and release the park brake.
- Switch the ignition to position II (on) position. This will free the steering lock and allow the correct operation of windscreen wipers, horn and turn signals.
- For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that power assist for brakes and power steering (if fitted) will not be available when the engine is off. Therefore, more effort will be required to brake and steer.
- To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "re-circulate" position.
- Vehicles fitted with automatic transmissions should only be towed facing forwards and must not be towed for more than 100 km or at over 80 km/h.
- If the transmission is defective, or if the above speed or distance is to be exceeded, the front of the vehicle must be raised.
- Only the driver should be in a towed vehicle.

## Towing another vehicle from a Barina or Combo

Attach a tow rope to the rear towing eye, never to the rear axle. Drive off slowly and avoid jerky movements.


4357 S

CHAPTER 7

# Weekly checks


Page

7-2 Miscellaneous checks
7-2 Service manuals
7-3 Engine oil level
7-4 Engine coolant level
7-5 Auto transmission fluid level
7-6 Power steering fluid level
7-6 Brake fluid level
7-7 Washer fluid level
7-7 Battery
7-8 Fuses
7-9 Tyres
7-12 Trolley jack locations
7-13 Bulb replacement

# MISCELLANEOUS CHECKS

As well as taking your car to be serviced (refer Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

The following checks should also be regularly done to ensure proper safety and dependability of your car.

**CHECK:**

- that all exterior lights are working and that their appropriate interior indicators light up when in operation.
- mirrors and glass are clean and not scratched.
- automatic transmission T-bar indicator correctly lines up next to the gear selected.
- the aim of water on the windscreen or tailgate and condition of the wipers.
- demister operates.
- all seat belt condition and operation (give it a sharp tug to make sure that it will 'lock' if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

## Service manuals

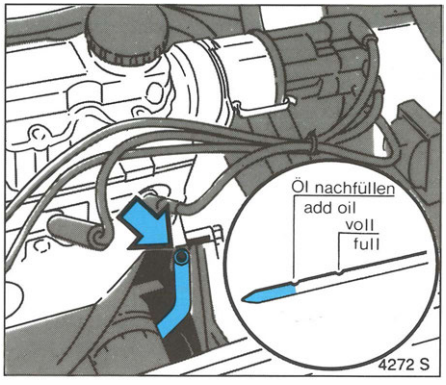
General Motors-Holden's Automotive Limited also publishes various service manuals which are available from your Dealer.

# ENGINE OIL LEVEL

It is normal for every engine to consume some oil. For this reason the engine oil level should be checked every 500 km or before starting a long trip.

The oil level must be checked with the vehicle parked on level ground and with the engine (which must be at normal operating temperature) switched off. Wait at least two minutes before checking the level to allow the oil to settle. If the engine is cold the oil may take considerably longer to drain back.

To check the level, remove the oil dipstick, wipe it clean and re-insert it as far as it will go, pause for a second then withdraw the dipstick and look at the oil level on it.



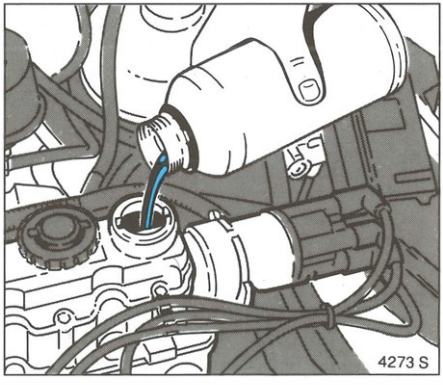

The oil level should be maintained between the two marks.

If you need to add oil, use SG grade engine oil 20W/50 (or 15W/40 for prolonged use in snow areas).

To add oil, undo the cap on top of the engine. Add enough oil to bring the oil level to *full* mark. As a guide, the distance between the marks represents 1 litre of oil.

Wait a few minutes for the oil to settle. Then check the oil level again. If still too low, add more oil. If now correct, replace the oil cap and the dipstick.

Note that the oil level should not go above the *full* mark on the dipstick. This would lead, for example, to increased oil consumption, fouling of the spark plugs and excessive formation of carbon residue.

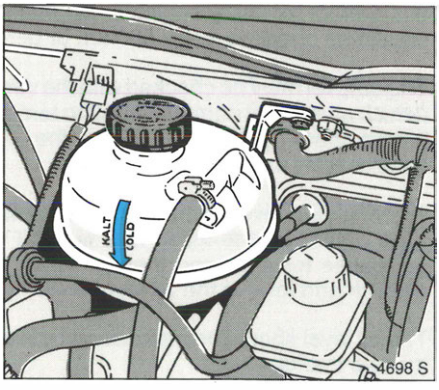



Oil consumption should not be judged until the vehicle has run several thousand kilometres. It may take this long for oil consumption to stabilize.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will not only increase costs, but may be detrimental to the operation of your vehicle.

## ENGINE COOLANT LEVEL

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container when the engine is cold.




The level should be slightly above the KALT/ COLD mark when the engine is cold. The level rises when the engine is running and drops again when the engine cools down. If the level falls below the 'cold' mark the coolant should be topped up to a little over the mark.

The LONG LIFE COOLANT in your vehicle conforms to Holden specification number HN 2043. This can be purchased as

M40236 (1 litre) M40307 (5 litres) M40238 (20 litres)

If topping up, first mix a solution of 50% LONG LIFE COOLANT and 50% water. Failure to use the specific Holden coolant or maintain the specified concentration may result in voiding your warranty.

In an emergency, plain water may be used temporarily in the cooling system until the correct Holden LONG LIFE COOLANT is obtained as soon as possible from the nearest Holden Dealer.

It should be noted that the specified long life coolant contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This LONG LIFE COOLANT also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -37°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system, you should see your Holden Dealer.

**CAUTION:**

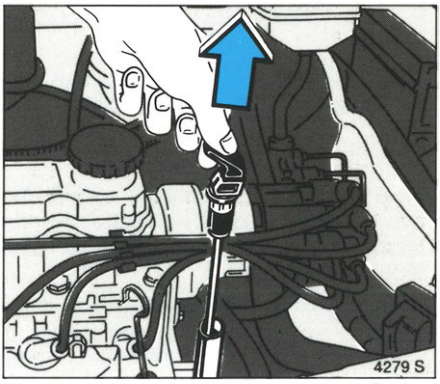
**Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention. Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.**

Refer Chapter 6 if engine overheats.

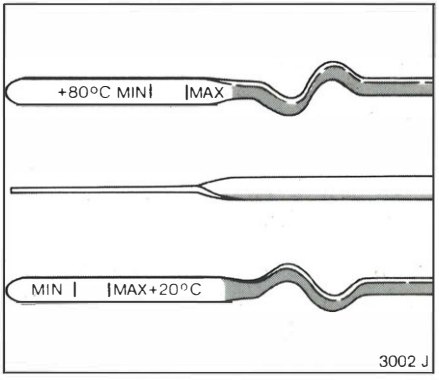
# AUTOMATIC TRANSMISSION (if fitted) FLUID LEVEL

The automatic transmission should be checked weekly by looking at the fluid level on the transmission dipstick.

Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid. The dipstick has different markings on each side, the +20°C is used for the cold check; the +80°C is used for the hot check.




- Use the cold side marks when the car has not been driven for a couple of hours and the outside air temperature is below 35°C. If using the cold marks, the check must be completed by the time the engine has been idling for one minute.
- Use the hot side marks when the car has been driven for at least 20 km.




The car must be parked on level ground, the park brake applied and the selector in `P', and the engine idling. Remove the dipstick, wipe it clean with a clean non-fluffy cloth. Re-insert the dipstick as far as it will go and then withdraw the dipstick and look at the fluid level on the `cold' side.

The level should be between the MIN and MAX marks. If fluid is required, add DEXRON®11E or DEXRON®111 in the same opening as the dipstick is stored in. Again check the level with the dipstick and add further fluid if necessary. Remember to replace the dipstick.

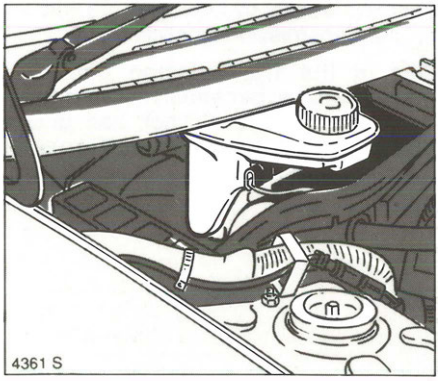
NOTE: If fluid has to be added often, you should see your Holden Dealer.

# BRAKE & POWER STEERING FLUID LEVEL

## Brake fluid level

**Caution:**

**Brake fluid is poisonous and will damage the paint finish of your car if spilt.**




The brake fluid in the master cylinder should be checked weekly. The master cylinder is located in the engine bay, on the driver's side of the vehicle.

The fluid level, visible in the see through master cylinder, should be maintained between the MIN and MAX level markings (shown in the cutout at the side of the master cylinder).

If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture which in turn lowers the boiling point of the fluid as well as increasing risk of corrosion of brake components.

If fluid needs to be added, first clean around the cap. Top up with heavy duty brake fluid which meets SAE Specification J1703, DOT 4.

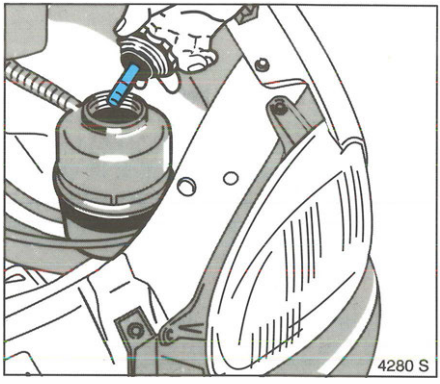
Remember to secure the cap.

NOTE: Use only new brake fluid. Use of an old, used or inferior brake fluid may endanger the functioning of the brake system.

If the master cylinder requires constant topping up it could indicate that a malfunction exists and you should immediately see your Holden Dealer.

## Power steering fluid level (if fitted)

The container for the power steering fluid is located in the engine bay. Check the fluid level when the engine is turned off.




Unscrew and carefully remove the cap on top of the container. The dipstick is attached to the cap.

If the vehicle has been driven for a while the fluid level should be at the upper level mark. When the fluid is cold the level should be at the lower mark (but never lower).

If fluid needs to be added, use Dexron®11E or Dexron®111.

Do not overfill. Remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer.

# WASHER FLUID LEVEL & BATTERY

## Washer fluid level

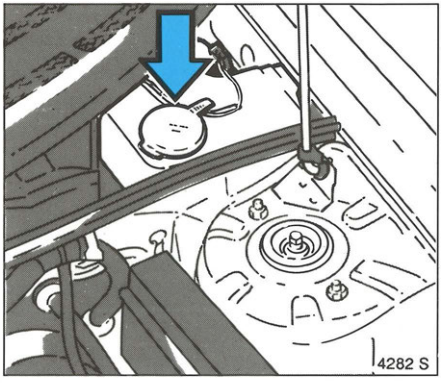
The washer fluid is constantly used, the level should be checked weekly and topped up as required.

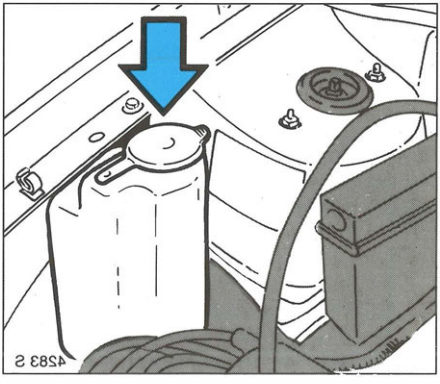
The washer container is for both the windscreen and tailgate washers.

The washer container is located under the bonnet, on the passenger's side. On some models it is to the rear of the engine bay, on other models it is located further towards the front of the car.

One of the two styles (both illustrated) will be fitted to your model. Both styles have a flip top cap, which must be secured after filling.

For a crystal clear windscreen, the correct amount of Optikleen (part no M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.



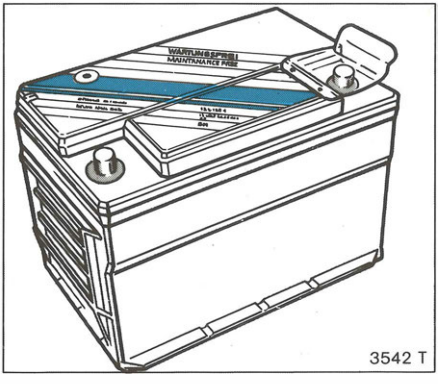




## Battery

Your car is fitted with a maintenance free battery.

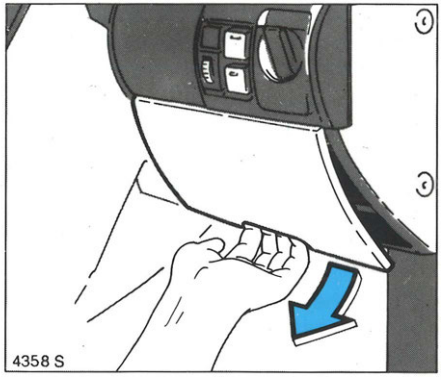
Note: You should never disconnect the battery when the engine is running.

When removing the battery for recharging, first disconnect the negative cable, then the positive cable. Never charge the battery while still connected to the car. When reconnecting, first connect the positive cable to the positive post of the battery, and then the negative cable to the negative post of the battery.



# FUSES

The fuses are located under a cover inside the vehicle, to the right of the steering column. Pull the cover up from the bottom.




Fuse symbols are shown on the inside of the cover.

Fuses used are of the blade type with the amperage values moulded into the head. To determine whether or not a fuse has `blown', it is necessary to pull out the suspect fuse and examine the element in the fuse. If the element has broken, replace the fuse with one of the same value.

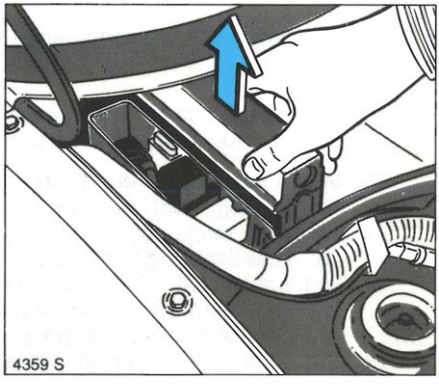
Note that you must pull the rounded tab upwards when replacing the fuse block in its original position.

If after replacing a burnt-out fuse the new fuse also burns out, an overload is indicated. The cause of the fault should be located and rectified, preferable by a Holden Dealer.

**CAUTION:**

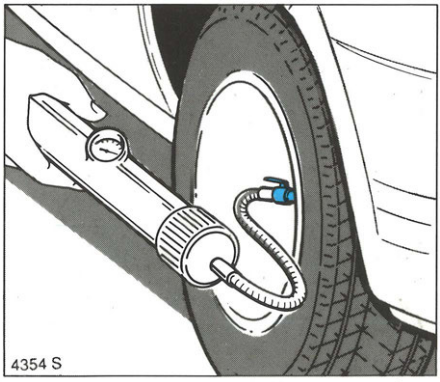
**When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse, as it could damage electrical components and may cause a fire hazard to your car.**

Relays are located in the fuse box. Further relays (and additional fuses) are located in the engine bay.



# TYRES

## Tyre air pressure




Checking the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your car will handle at it's best - check the pressures weekly. For constant long distance or rough road travelling, daily checking is recommended.

For correct pressure for your tyres, refer to the tyre placard, on the inside of the fuel flap.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the tyres are cold (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blowout at high speeds.

Remember to put back any valve dust caps or extensions, if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

## Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the car to "pull" to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

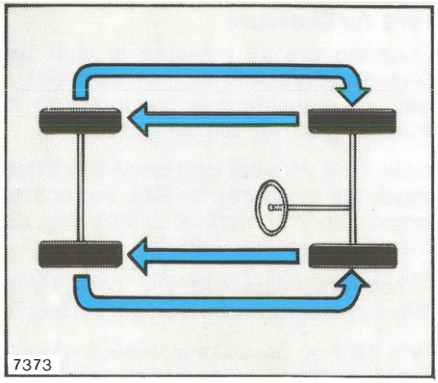
If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check done by your Holden Dealer.

# TYRES

## Tyre inspection and rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your car to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.




## Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your car for the purpose you require should be referred to your Holden Dealer.

## Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your car.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your motor vehicle insurance policy.

## Tyre traction

**CAUTION:**

**A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and speed should be adjusted to the road conditions.**

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speeds during rainstorms, when roads are slushy or if the road has standing water or puddles.
2. Replace tyres when tread wear indicators are visible.
3. Check that tyres are properly inflated.

# TYRES

## Tyre replacement and repair

**CAUTION:**

**Do not mix different tyre construction types, such as radial and cross ply, on your car except in emergencies, because your car's handling could be affected and may result in loss of control.**

When replacing tyres you should use the same size, load rating and construction type as the original tyres on your car. Refer to tyre placard on your car for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, ground clearance and tyre clearance to the body or chassis.

Tyres with a higher speed rating and/or maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

1. The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing.
2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

If in doubt about the extent of damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacture's recommendations.

**CAUTION:**

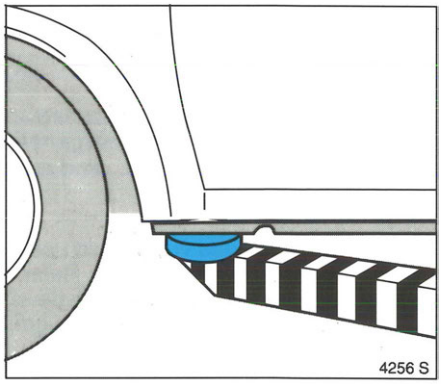
**Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds. Therefore, their use is not recommended.**

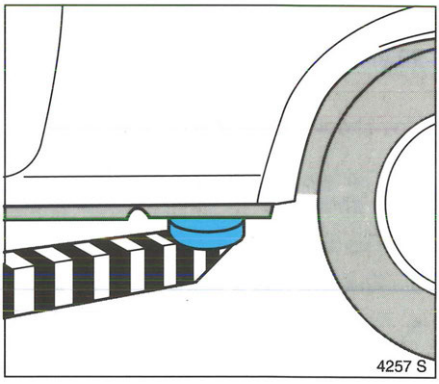
# TROLLEY JACK / HOIST LOCATIONS

You should always use the jack locations shown on page 6-6 when using the original jack supplied with your car. This jack has been designed to correctly and safely lift your car. Also note the precautions on page 6-4, prior to lifting.

However, if using a trolley jack or hoist to raise the car, it is important that the jack be positioned as shown.

When using lifting or jacking equipment with metal jaws, use a rubber pad to avoid damaging the car.



# BULB REPLACEMENT

*When replacing a bulb, turn off the respective switch.*

*Do not touch bulbs with bare hands. Greasy fingers will cause stains which evaporate, eventually resulting in a dull light. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.*

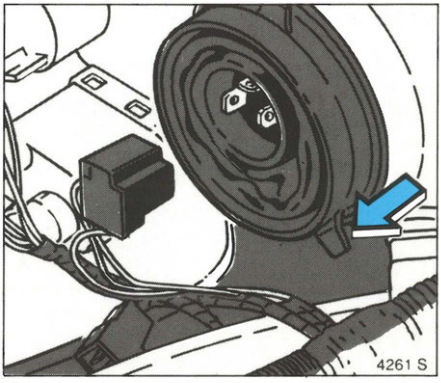
*When replacing bulbs do not exceed the wattage given on the bulb base.*

*Detailed procedures for headlight aiming are given in the relevant service manual for your car. However, because headlight aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.*

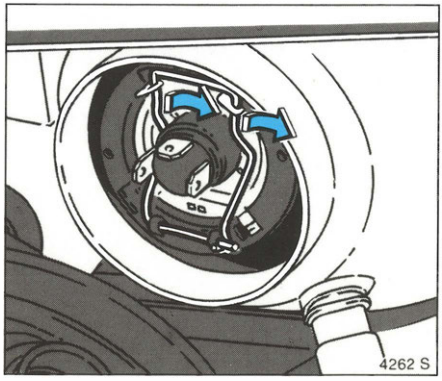
*To facilitate access to the front right lights remove the air duct by: rotating the yellow rotary fastener 90° with a coin, lifting and then removing the air duct from air cleaner housing. To reinstall, insert air duct into air cleaner housing and secure yellow fastener.*

## Headlights

1. Open bonnet and engage support.
2. Remove plug socket and wire from bulb base. Remove headlight protective cover.
3. Disengage spring wire clip from retaining lugs and swivel it to the side.



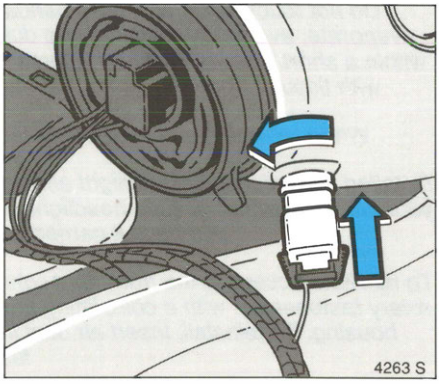

4. Remove bulb from reflector housing.
5. When installing new bulb, engage fixing lugs of bulb holder in recesses on reflector.



# BULB REPLACEMENT

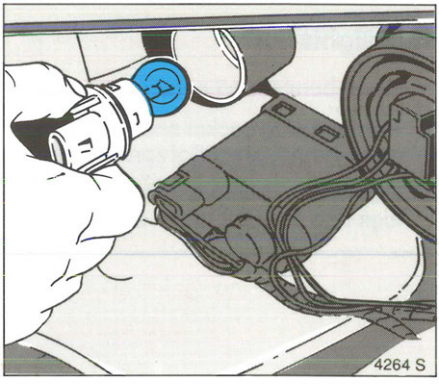
## Parking lights

1. Open bonnet and engage support.
2. Press bulb holder towards reflector, disengage by turning anticlockwise and remove.
3. Remove bulb from holder.
4. Insert new bulb.




## Front turn signal lights

1. Open bonnet and engage support.
2. Disengage bulb holder from turn signal light reflector by turning.
3. Remove bulb from holder.
4. Insert new bulb and engage holder again by turning.



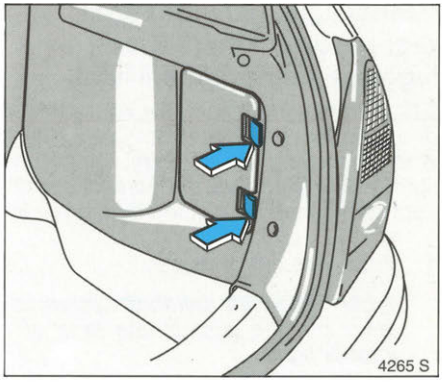

## Front fog lights (if fitted), high mounted stop light (if fitted) and instrument lighting

The work should preferably be carried out by a Holden Dealer.

# BULB REPLACEMENT

## Barina : tail, brake, rear turn signal, reverse lights, rear fog lights (if fitted)

1. Press retaining lugs in luggage compartment in direction of arrow and open flap (when closing, make sure that all catches on flap engage).



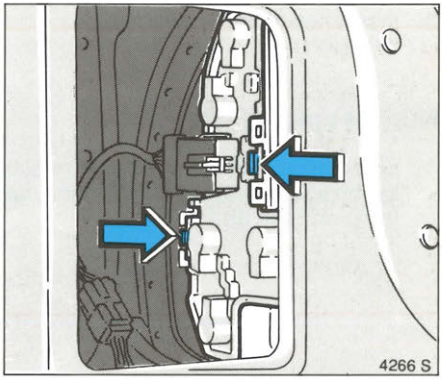

2. **Two door Barina models:**
Press retaining lugs on outer edges of bulb mounting together and remove bulb mounting.

Bulb sequence from top to bottom:

Brake light
Tail light

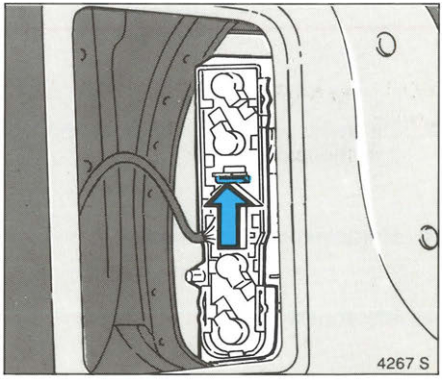
Outside: Turn signal light

Inside: Reverse light
Rear fog light (if fitted)




**Four door Barina models:**

Press retaining lug in centre of bulb mounting upwards and remove bulb mounting. Bulb sequence from top to bottom:
Tail light
Brake light
Turn signal light
Reverse light
Rear fog light (if fitted)




3. Remove defective bulb from holder.

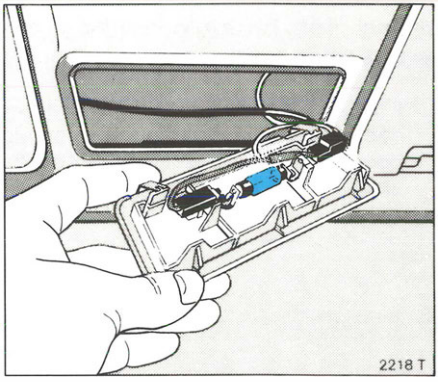
4. Insert new bulb and engage bulb mounting again (make sure that all locking elements engage).

5. Close flap.

# BULB REPLACEMENT

## Interior light, glovebox light, rear reading light (if fitted), luggage compartment light,

Before removing the interior light, close the doors so that the light is not live. Likewise, when removing the luggage compartment light, make sure that the contact switch is kept depressed so that the light is not live.



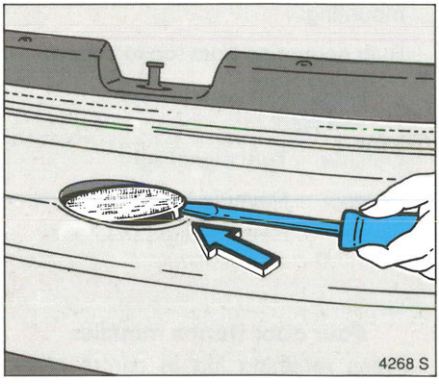

1. Prise lens out of recess,

   *If car fitted with anti-theft system, only lever out the appropriate lens of the interior light.*

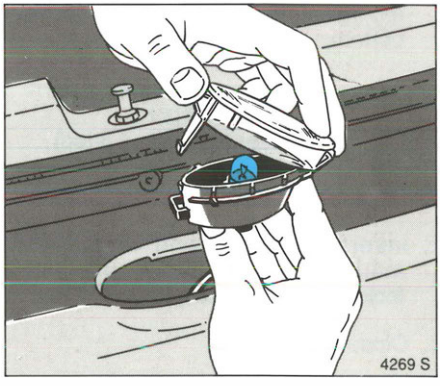
2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.

## Number plate light

1. Using a screwdriver, disengage retaining lug on right hand side of light insert, raise lamp on right and lift out.

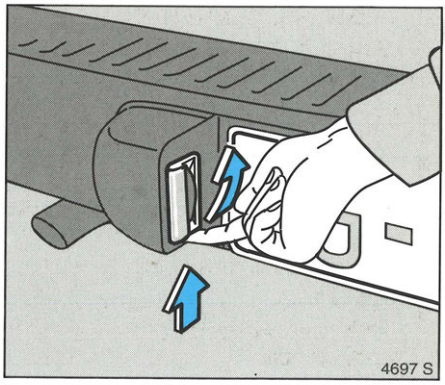



2. Depress protruding tongue and open light housing.
3. Remove bulb from holder.
4. Insert new bulb



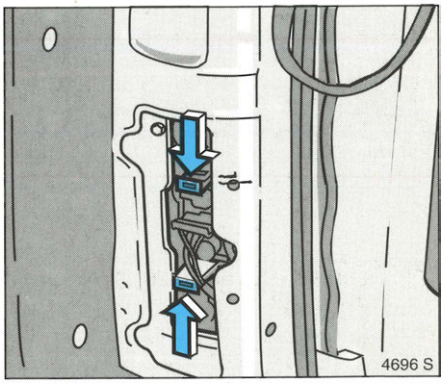
# BULB REPLACEMENT

## Combo number plate light




1. Move light assembly up and down to disengage from bump stop.
2. Press tongue inwards and open light housing.
3. Remove bulb from holder.
4. Insert new bulb

## Combo: tail, brake, rear turn signal, reverse lights, rear fog lights (if fitted)




1. Press retaining lugs at top and bottom of bulb mounting towards each other and remove bulb mounting.
2. Bulb sequence from top to bottom:
   - Tail light / rear fog light
   - Turn signal light
   - Reverse light
   - Brake light
3. Remove defective bulb from holder.
4. Insert new bulb and engage bulb mounting again (make sure that all locking elements engage).

## Notes

CHAPTER 8

# Specifications

Page


8-2 Engine specifications
8-3 Transmission specifications
8-3 Dimensions
8-3 Battery
8-4 Identifications plates

# ENGINE SPECIFICATIONS

| Engine type | C12NZ overhead cam | C14NZ overhead cam | X16XE double overhead cam, 16 valve |
|---|---|---|---|
| No of cylinders | 4 | | |
| Piston displacement | 1195 cc | 1389 cc | 1598 cc |
| Compression ratio | 9.1 : 1 | 9.4 : 1 | 10.5 : 1 |
| Bore | 72.0 mm | 77.6 mm | 79.0 mm |
| Stroke | 73.4 mm | 73.4 mm | 81.5 mm |
| Power kW @ rpm | 33 @5,000 | 44 @ 5,200 | 78 @ 6,000 |
| Torque Nm @ rpm | 86 @ 2,800 | 103 @ 2,800 | 148 @ 4,000 |
| Oil specification | Service classification SG or SH. Viscosity grade 20W/50 for normal use, Holden's Motor Oil part no M40106 (5 litres) is recommended. For prolonged use in snow areas, the use of 15W/40 is recommended. | | |
| Refill oil capacity (including filter) | 3.5 litres approx. | | |
| Coolant capacity | 5.9 litres approx. | 5.8 litres approx. | 5.6 litres approx. |
| Coolant spec. | 50% water and 50% long life coolant conforming to Holden's specification number HN 2043, part number M40236 (1 litre) or M40307 (5 litres) | | |

# GENERAL SPECIFICATIONS

## Transmission

| | 5 speed manual | 4 speed automatic |
|---|---|---|
| Refill oil capacity | 1.9 litres | 7 litres |
| Fluid specification | Gear oil 80W GL4 to GMH Spec. HN1820, HN1855 or equivalent | Dexron ® II E or Dexron ® III |

## Dimensions (mm)

| | COMBO | BARINA |
|---|---|---|
| Overall length | 4,230 mm | 3,729 mm |
| Overall width | 2,060 mm | 1,768 mm |
| Overall height | 1,805 mm | 1,420 mm |
| Wheel base | 2,480 mm | 2,443 mm |
| Front track width | 1,387 mm | 1,387 mm |
| Rear track width | 1,427 mm | 1,388 mm |

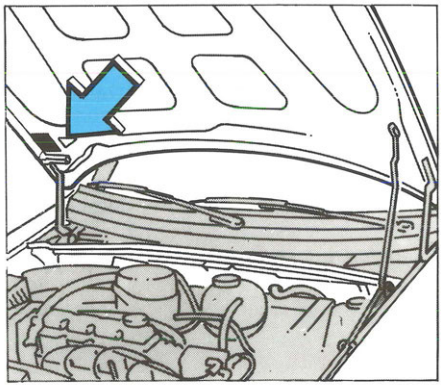
## Battery

| | |
|---|---|
| Type | 12 volt |
| Amp. hour | Barina 1.2 litre engine = 44 a. h. |
| | Barina 1.4 and 1.6 litre engines = 55 a. h. |
| | Combo = 60 a. h. |

# IDENTIFICATION LABELS

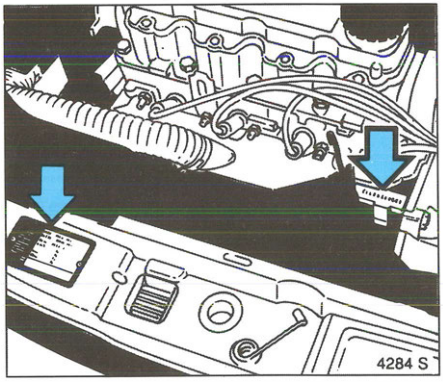
## Emission label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions and is located on the underside of the bonnet.



## Engine number

Individual identification numbers are stamped onto the engine, near the engine oil dipstick.




## Body and option identification plate

The BODY AND OPTION IDENTIFICATION plate is located on the radiator support panel. Included on this plate is the built date of your car, which is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

## Safety compliance plate

The SAFETY COMPLIANCE plate is located inside the engine bay, on the driver's side strut tower.

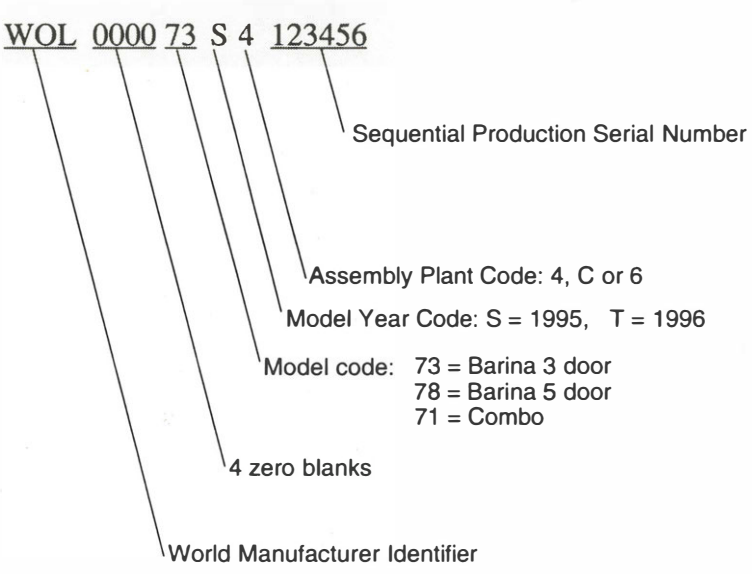
## Tyre placard

The TYRE PLACARD is located on the inside of the fuel filler flap.

# IDENTIFICATION LABELS

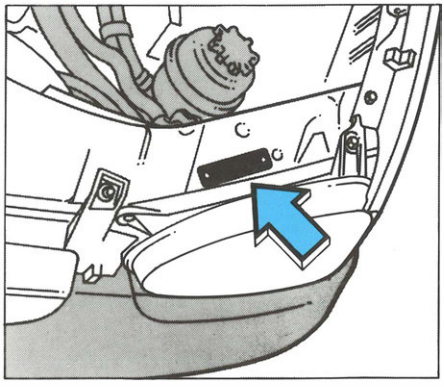
## Vehicle identification number (I.S.O.V.I.N.)

The individual I.S.O.V.I.N. number (example below) appears on the Body and Identification Plate.


WOL 0000 73 S 4 123456
Sequential Production Serial Number
Assembly Plant Code: 4, C or 6
Model Year Code: S = 1995, T = 1996
Model code: 73 = Barina 3 door
78 = Barina 5 door
71 = Combo
4 zero blanks
World Manufacturer Identifier

## Holden Identification Plate

The Holden Identification Plate is located on the radiator support panel. The number appearing on the plate should be used when identifying the vehicle, rather then the I.S.O.V.I.N. plate.



# Notes

CHAPTER 9

# After Sales

Page


9-2 New Vehicle Warranty
9-4 Parts and Accessories Warranty
9-5 Warranty questions & answers
9-8 HoldenWise
9-10 Roadside service
9-12 Authorised Holden Dealers
9-21 Customer assistance


Note: Dealership names and addresses may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

# NEW VEHICLE WARRANTY

## NEW VEHICLE WARRANTY CERTIFICATE

General Motors - Holden's Automotive Ltd. A.C.N. 006 893 232, hereinafter Holden's, warrants that it will make good without charge, any defect which appears in the vehicle identified in the vehicle identification certificate, found on the inside front cover of this handbook.

***Provided, for the Vehicle Warranty***

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:

(a) before the vehicle has travelled a distance of 50,000 km or,

(b) within 24 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 24 months of the date when it was first placed into service by the Dealer)

***whichever comes first, AND for the Powertrain Warranty***

the defect has been notified to an authorised Holden Dealer or Service Dealer:

(c) before the vehicle has travelled a distance of 100,000 km or,

(d) within 36 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 36 months of the date when it was first placed into service by the Dealer)

***whichever comes first, AND***

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

***AND***

the Dealer has determined that the defect complained of is one of workmanship and is not caused by:

(a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect

(b) operation of the vehicle after it is known to be defective

(c) accident or deliberate act

(d) atmospheric fallout or flood, hail, salt, etc.

(e) failure to carry out proper maintenance service

(f) use of incorrect types and grades of fuel, oil or lubricants

(g) alteration or modification of the vehicle by any party not authorised by Holden's

(h) the fitting of parts or accessories not marketed by Holden's

(i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by Holden's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF HOLDEN'S, BY REPLACEMENT.

# NEW VEHICLE WARRANTY cont.

## NEW VEHICLE WARRANTY CERTIFICATE cont.

***Excluded from the 24/50 Vehicle Warranty are:***

defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and services such as engine tuning, brake adjustment, replacement of air/oil/fuel filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

***Covered by the 36/100 Powertrain Warranty are:***

1. **ENGINE**
   a) **BASIC ENGINE ASSEMBLY PLUS**
   Intake manifold; exhaust manifold; supercharger; turbo charger; intercooler; seals and gaskets; mountings; flywheel; E.F.I. components; carburettor/ throttle body; fuel pump; injection pump; vacuum pump; injector nozzles; hoses and pipes for vacuum and EGR and PCV and fuel systems; fluid coupling; water pump.

   b) **EMISSION CONTROL**
   Air pump; air injection manifold; air suction manifold and valve; throttle positioner; modulator; catalytic converter; positive crank case ventilation system; air injection by air suction system; emission control system; exhaust gas re-circulation system.

   c) **ENGINE RELATED COMPUTERS**
   Engine control computer; emission control computer; E.F.I. computer; sensors.

2. **TRANSMISSION** Transmission; transaxle; transfer case assembly; torque converter; transmission control computer; mountings; seals and gaskets.

3. **CLUTCH** Cover Assembly

4. **FRONT / REAR AXLE** Axle Housing, Drive Shaft, Constant Velocity Joint, Propeller Shaft, Axle Hub, Axle Shaft, Bearing, Hub Bolts, Nuts, Oil Seals.

5. **SAFETY RESTRAINT** Seat Belts, Sensor Switch, Air Bag, Computer.

***Excluded from the 36/100 Powertrain Warranty (but included in the 24/50 Vehicle Warranty) are:***

Radiator; heater core; shock absorbers; springs and suspension mounting components; exhaust system; ignition coil/module; distributor; alternator; starter motor; fuel tank; transmission external linkages; wheels; instrumentation switches; spark plug leads plus any other components not specifically listed in Powertrain components shown above.

---

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all rights conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

# PARTS AND ACCESSORIES WARRANTY

Holden's warrants in respect of Holden's Parts and Accessories ("Parts" and "Accessories") that it will make good by repair or at its option by replacement any defect occurring in any such Parts and Accessories within 12 months from the date of acquisition or in the case of a Part or Accessory installed in a vehicle by a Holden Dealer or Service Dealer, within 24 months or before such vehicle has travelled a distance of 50,000 km from the date of installation, whichever first occurs.

Excluded from this warranty are maintenance items such as filters, spark plugs, wiper blades, etc. which require replacement as part of normal vehicle maintenance.

## PARTS AND ACCESSORIES WARRANTY EXPLANATION

### I ACCESSORIES - NEW VEHICLE

Accessories installed by a Holden Dealer or authorised Service Dealer to the new vehicle at the time of purchase are covered by the Holden's New Vehicle warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

### II PARTS AND ACCESSORIES - INSTALLED DURING NEW VEHICLE WARRANTY PERIOD

Parts and/or Accessories installed by the Dealer or authorised Service Dealer during the new vehicle warranty period are covered by the unexpired portion of the new vehicle warranty. After expiry of the new vehicle warranty, the Parts and Accessories warranty will apply until the xpiration of 24 months/50,000 km (whichever occurs first) from date of fitment.

### III PARTS AND ACCESSORIES - INSTALLED AFTER EXPIRY OF NEW VEHICLE WARRANTY

Parts and/or Accessories installed by the Dealer or Service Dealer after expiration of the new vehicle warranty are covered by the Parts and Accessories warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

### Iv PARTS AND ACCESSORIES - PURCHASED AT RETAIL OR TRADE

Parts and/or Accessories purchased at trade or retail and installed by other than the Dealer or Service Dealer are warranted for 12 months from date of purchase. In these instances it is necessary to preserve proof of sale records to support warranty claims.

### v PARTS AND ACCESSORIES WARRANTY EXCLUSIONS

Defects in tyres, these being warranted by their manufacturers, batteries which are covered for 12 months and maintenance service items, such as spark plugs, oil/air/fuel filters, coolant/inhibitor, wiper rubbers, brake pads, linings and discs, clutch linings, refrigerant, drive belts, distributor ignition points, bulbs and fuses, which are warranted against manufacturing defect existing at time of installation.

Where this Handbook specifies a schedule for replacement of parts, such parts are covered by parts warranty for the extent for the specified maintenance service interval.

# WARRANTY QUESTIONS

This section is designed to assist you in understanding the Holden's Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

**Q 1. How do I go about obtaining Holden's Warranty Service?**

It is the responsibility of the Selling Dealer to provide Holden's Warranty service, therefore you should take your vehicle to the Selling Dealer whenever Holden's Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

**Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden's New Vehicle Warranty?**

You should contact the nearest Authorised Holden Dealer or Holden's Customer Assistance Service (refer last page of this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden's Warranty Service.

**Q 3. What should I do if, in an emergency, Holden's Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?**

If, in an emergency, a repair, replacement or adjustment (covered by the Holden's New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden's Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden's Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden's Customer Assistance Service, prior to repairs being commenced.

**Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden's Warranty?**

No, these items are not covered. Holden's warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden's New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden's New Vehicle Warranty, but any claim based on those rights should be separately pursued.

## *WARRANTY QUESTIONS*

### Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden's New Vehicle Warranty. The Maintenance Schedules in this handbook specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay for include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 1,500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 1,500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after 5,000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after 1,500 km.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after 1,500 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after 1,500 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings - after 1,500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

### Q 6. Are my tyres covered by the Holden's New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

# WARRANTY QUESTIONS

**Q 7. Are Holden's parts and accessories covered by warranties?**

If you buy a Holden's part or accessory from an Authorised Holden Dealer it will be warranted by that Dealer, under the Holden's parts and accessories Warranty, against defects in materials or workmanship for 12 months, from the date of purchase. In the case of a Holden's part or accessory which has been installed in a vehicle by a Holden Dealer, it will be warranted for 24 months or 50,000 km (whichever occurs first) from the date of installation.

Defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and maintenance items such as filters, spark plugs, wiper blades and brake pads/linings require replacement as part of normal maintenance. Such replacements are not the subject of this warranty.

**Q 8. Will I have to pay for any costs or expenses in connection with the provision of Holden's Warranty service?**

All parts and labour used in carrying out Holden's Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden's Warranty service is to be carried out by the Servicing Dealer it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden's New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden's Warranty Service, Holden's will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden's Customer Assistance Service (refer last page of this chapter) to obtain guidance.

**Q 9. Would my car's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden's ?**

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your car.

Only the fluids and lubricants referred to in this handbook should be used.

# HOLDENWISE

## ONE FEATURE EVERY CAR MAKER WOULD LOVE TO BE ABLE TO OFFER.

### Holden, a lot more than just a car

As you'll soon discover, your new Holden is a lot more than just a car..... because every Holden comes with one very special feature, HoldenWise.

HoldenWise was created to offer Holden owners the best Australia wide customer care system possible. To do this we've drawn on all the technical resources and service skills of Holden's. However, the key to our service is and always will be, people, with over 5,000 Holden service and parts specialists spread across the country. Thanks to them, we can offer HoldenWise Customer care at participating Holden Dealers with complete confidence.

### Holden Specialists

HoldenWise technicians have been specially trained by the factory and have the experience in service and parts skills necessary to work on your car. As you can imagine Holdens today are a lot more sophisticated than they used to be, which means specialist service is essential.

Knowing Holdens so well, our technicians know exactly how long each service takes, which is why Holden dealers can offer fixed price servicing.

### HoldenWise Fixed Price Servicing

HoldenWise has eliminated one of the big worries about car services, not knowing what the bill will be. Every participating Dealer service centre offers fixed price servicing. You need only ask and you'll be given a quote on how much the job will cost before it's started. So there are no nasty surprises when paying the bill.

Of course, if during the service, a problem is discovered, you'll be telephoned immediately before any more work is done.

You may be comforted to know that all participating Dealer work is covered by a workmanship warranty.

### HoldenWise Workmanship Warranty

All services and repairs are covered by a 6 month/10,000 km Dealer warranty on workmanship. If a fault arises during that period, due to the service, your Holden Dealer will fix it. But workmanship isn't the only thing that is guaranteed.

HOLDEN WISE
QUALITY SERVICE & PARTS
We guarantee our service workmanship for a period of 6 months or 10,000 kilometres.
GUARANTEE

# HOLDENWISE

### Holden's Parts Warranty

The parts used in HoldenWise services are manufactured and tested to the same high standards as the originals, so Holden quality parts carry the same 24 month/50,000 km warranty when fitted by the Dealer. Naturally the warranty does not apply to normal maintenance parts like oil filters and spark plugs.

Whilst on the subject of parts, how often have you been told you'll have to wait a while until the parts can be found?

Thanks to the HoldenWise network, it's something you're unlikely to encounter at your Holden Dealer.

### The HoldenWise Network

Most HoldenWise Dealer service and parts centres are computer linked through to the factory, which means you'll never have to wait an eternity for the right parts to be found.

What's more, with around 350 Dealers nationwide, you'll never be far from the same high standard of service.

### Holden Accessories

Holden accessories are designed and approved as an integral part of your vehicle so you know they will fit and function precisely. When installed by the Holden Dealer to your new vehicle, Holden accessories are covered by the Holden's warranty of 24 months or 50,000 km for your added protection.

### Customer Assistance

Finally, we suggest you read the last page of this chapter for information on Holden's Customer Assistance Service.

## UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden's product or in connection with the supply of any Holden's product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden's in its published sales literature, and the Company does not accept any such unauthorised action.

## *HOLDENWISE Roadside service*

# 3 YEAR
# 24 HOUR ROADSIDE SERVICE

### OUR COMMITMENT TO YOUR SATISFACTION

HoldenWise Roadside Service is part of the unequalled commitment of Holden's to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing, and now beyond to the open road.

HoldenWise Roadside Service is your key to worry free motoring - one that covers you from your driveway to the open road, Australia-wide.

We hope the need never arises, but if it does, we'll be there to help through HoldenWise Roadside Service.

### HOW DOES HOLDENWISE ROADSIDE SERVICE WORK?

When you decide to buy a new Holden, you will have made a wise purchase decision and you will become a member of an exclusive club of Holden owners, covered by a 24 hour a day, 365 day a year, professional service for 3 years.

HoldenWise Roadside Service is provided by General Motors-Holden's Automotive Ltd., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of the Australian Automobile Association) the 'AAA'.

### WHICH CARS ARE COVERED BY THE SERVICE?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months service.

HoldenWise Roadside Service is extended to private and business cars, taxis, rental companies, all government and fleet operators.

### WHAT WILL HOLDENWISE ROADSIDE SERVICE DO FOR ME?

HoldenWise Roadside Service is designed to get you mobile after your vehicle has become disabled on a constructed road that is trafficable to normal two wheel drive vehicles.

Your vehicle must be disabled due to (non-collision related) mechanical failure/driver fault i.e. flat tyre, flat battery, locked out of the vehicle, or have simply run out of petrol.

Where permanent repairs are either not possible or practicable, temporary repairs will be carried out, or the vehicle towed to a Holden Dealer or approved repairer.

### WHEN DO THE BENEFITS BEGIN?

Cover begins the moment a Holden vehicle is purchased. An Interim Registration card entitles you to immediately receive all the benefits of HoldenWise Roadside Service.

### WHERE CAN I GET HOLDENWISE ROADSIDE SERVICE?

The professional service of HoldenWise Roadside Service is available to you at home, or at the roadside, anywhere in Australia, should you need it.

# HOLDENWISE Roadside service

## WHAT HAPPENS IF MY VEHICLE NEEDS MAJOR REPAIRS?

In the case of a breakdown where the vehicle cannot be made driveable or where temporary repairs may void the warranty, HoldenWise Roadside Service will provide towing to the nearest Holden Dealer, or if not geographically practicable, to the local 'AAA' constituent service facility. It is the responsibility of the owner to seek Holden's approval before any repairs are undertaken by a non Holden Dealership. This action will ensure the warranty remains valid.

During an after-hours' breakdown and where the metropolitan Holden Dealer or 'AAA' constituent's approved repairer is not open, the vehicle may be towed to any other location nominated by the driver not exceeding 20 kilometres from the point of breakdown.

## IS THERE ANY MEMBERSHIP OR JOINING FEE?

No, you will not be required to pay any fees. Every new Holden passenger vehicle and light commercial vehicle owner is eligible for HoldenWise Roadside Service for 36 months.

## WHAT WILL HOLDENWISE ROADSIDE SERVICE COST ME?

Materials, fuel and spare parts supplied during the service must be paid for at the time of the service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting the local Holden Dealer.

## WHAT HAPPENS IF I SELL MY VEHICLE?

Holdenwise Roadside Service stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the service. The new owner simply registers for the service by using the change of ownership form supplied in the member's kit.

## ROADSIDE 'ULTRA' - PRESTIGE CARS

Some luxury models receive the additional cover of 'Roadside Ultra'. This cover provides the new owner with all the benefits of HoldenWise Roadside Service along with some very valuable extras, including accommodation, alternative transportation, rental car and Australia-wide vehicle recovery.

## HSV - HOLDEN SPECIAL VEHICLES

Purchasers of Holden Special Vehicles automatically qualify for the coveted HSV Gold Lion package. This package provides the Gold Lion Member with all the benefits of HoldenWise Roadside Service and where applicable, the enhancement package 'Roadside Ultra'.

## HOW DO I CALL FOR SERVICE?

Simply call **1800 817 100**, the HoldenWise toll free number from anywhere in Australia.

The HoldenWise Roadside Service Kit contains full details of the service and any limitations that may apply. In the meantime further information is available from the toll free Holden Customer Assistance Service line, on **1800 033 349**.

## N.S.W., A.C.T. & TAS. HOLDEN DEALERS

| | |
|---|---|
| NAMBUCCA HEADS | Nambucca Holden - Mann Street |
| NARRABRI | Allan Cooper Holden - 181 Maitland Street |
| NARROMINE | L.E. Stanley Pty Ltd - Dandaloo Street |
| NEWCASTLE | Newcastle City Holden - 745 Hunter Street |
| NOWRA | Glendon Motors Holden - 301~313 Princes Highway |
| ORANGE | Canobolas Holden - 348 Summer Street |
| PARKES | Go Motors of Parkes - Cnr Mitchell & Clarinda Sts |
| PEAK HILL | S.Leary & Sons Pty Ltd - Mingelo Street |
| PORT MACQUARIE | Todd Holden - 16~20 Clarence Street |
| QUIRINDI | Browning Motors - 82 Henry Street |
| SCONE | Upper Hunter Motors (Scone) - 100 Liverpool Street |
| SINGLETON | Lancaster Holden - 80 John Street |
| TAMWORTH | Kensell's Holden - Cnr Bourke St & Kable Ave |
| TAREE | Hardes Auto House - Beeton Parade |
| TEMORA | Rod Lovering Holden - 2 Stockinbingal Road |
| TENTERFIELD | Sexton & Green (Sales & Service) P/L - 148 Rouse Street |
| TUNCURRY | Great Lakes Holden - 144 Manning Street |
| TUMUT | Nancarrow Holden - 35 Fitzroy Street |
| TWEED HEADS | Tweed Motors Pty Ltd - 75~79 Pacific Highway |
| ULLADULLA | Alan May Holden - 150 Princes Highway |
| WAGGA WAGGA | Wagga Motors Pty Ltd - 32 Dobney Avenue |
| WALCHA | Bowden's Garage Pty Ltd - Derby Street |
| WALGETT | Walgett Garage Pty Ltd - 81 Wee Waa Street |
| WALLA WALLA | D.E. Lieschke & Son Pty Ltd - Commercial Street |
| WARIALDA | Roger Moore - Hope Street |
| WARILLA | Wilson's Warilla Pty Ltd - 29 Shellharbour Road |
| WARREN | Fuller Bros - Dubbo Street |
| WEE WAA | Allan Cooper Holden - Rose Street |
| WELLINGTON | Gersbach's Garage Pty Ltd - 92 Lee Street |
| WEST WYALONG | West Wyalong Motors - 183 Main Street |
| WOLLONGONG | Dwyers City Holden - 31~33 Crown Street |
| WYONG | Barry Robertson Holden - 172 Pacific Highway |
| YASS | Bill Nesbitt Holden - 221 Comur Street |
| YOUNG | Harden & Geelan Holden - 48 Boorowa Street |

### A.C.T.

| | |
|---|---|
| BELCONNEN | Gerald Slaven Holden - Josephson Street |
| BRADDON | Beazley & Bruce Holden - 44 Mort Street |
| PHILLIP | Commonwealth Motors Pty Ltd - 158 Melrose Drive |

### Tas.

| | |
|---|---|
| BURNIE | Motors Burnie - Marine Terrace |
| DEVONPORT | Motors Devonport - Victoria Parade |
| HOBART | Motors Pty Ltd - 179 MacQuarie Street |
| KING ISLAND | King Island Motors Pty Ltd - Netherby Road, Currie |
| LAUNCESTON | Motors Launceston - 93~95 Elizabeth Street |
| SMITHTON | Motors Smithton - Cnr Nelson & Gibson Street |
| ULVERSTONE | Motors Ulverston - 97~101 Reibey Street |

# VIC. HOLDEN DEALERS

## Vic. Metropolitan

| | |
|---|---|
| BERWICK | Barry Bourke Holden - 755 Princes Highway |
| BUNDOORA | Watson Holden - 413 Grimshaw Street |
| BURWOOD | Penfold Holden - 63 Burwood Highway |
| CAULFIELD | Booran Holden - 1049 Glenhuntly Road |
| CHELSEA | Harrison Holden - 370 Nepean Highway |
| CHELTENHAM | Booran Holden - 1212 Nepean Highway |
| DANDENONG | Daryl Shave Holden - 25 Lonsdale Street |
| DONCASTER | Doncaster Holden - 636~640 Doncaster Road |
| ELSTERNWICK | Reg Hunt Holden - 77 Nepean Highway |
| ESSENDON | Preston Motors (Essendon) P/L - 205~211 Keilor Road |
| FAWKNER | Mantello Holden - 1263 Sydney Road |
| FERNTREE GULLY | Neilson Holden F.T.G. - 980 Burwood Highway |
| FOOTSCRAY | Alan Mance Holden - 435 Barkly Street |
| FRANKSTON | Noel Gould Holden - 140 Dandenong Road |
| GEELONG | R & B Smith Holden - 510 Moorabool Street |
| GEELONG | Winter & Taylor (Sales) P/L - 23 Cavendish Street |
| GLEN WAVERLEY | Geoff Brady Holden - 565~577 Springvale Road |
| HASTINGS | Westernport Holden - 2147 Flinders Road |
| LILYDALE | Noel Dight Holden - 344 Main Street |
| MORNINGTON | John Collins Holden - 976 Nepean Highway |
| OAKLEIGH | Garry & Warren Smith - 1575 Dandenong Road |
| PRESTON | Ralph D'Silva Holden - 573~603 High Street |
| RINGWOOD | Patterson Cheney Holden - 45~57 Maroondah Highway |
| SOUTH MELBOURNE | Patterson Cheney Holden - 168 Sturt Street |
| SOUTH YARRA | Penfold Holden - 681 Chapel Street |
| SUNSHINE | Kevin Dennis Holden - 272 Ballarat Road |
| WERRIBEE | Ballan Holden - 56 Princes Highway |
| WEST MELBOURNE | Reg Hunt Holden - 577 King Street |

## Vic. Country

| | |
|---|---|
| ALEXANDRA | GK & JH Radford - 79 Greints Street |
| ARARAT | David Reid Motors - High Street |
| BAIRNSDALE | The Big Garage - 199 Main Street |
| BALLARAT | Peter Amor Motors - 2~26 Mair Street |
| BENALLA | Arnott's Motors - 88~90 Bridge Street |
| BENDIGO | Ron Poyser Holden - Cnr High & Myrtle Streets |
| BIRCHIP | R.L. & C.J. Bales - 38 Cumming Avenue |
| BOORT | Jaron Motors - 55 Godfrey Street |
| CAMPERDOWN | Camperdown Auto Parts - 96 Manifold Street |
| CASTERTON | Coxons Holden - 139 Henty Street |
| CHARLTON | K.V. Charlton - 70 High Street |
| COBRAM | Neville Mustica Motors - Murray Valley Hwy |
| COHUNA | Hare Motors Holden - 105~107 King George Street |
| COLAC | Parker Bros. Motor Co - 224 Murray Street |
| DAYLESFORD | K.R. Little - Vincent Street |
| DIMBOOLA | Westerfield Motors Pty Ltd - 64 Lloyd Street |
| DONALD | O.A. Shilton & Sons Pty Ltd - 5 Wood Street |

# VIC. & TAS. HOLDEN DEALERS

| | |
|---|---|
| ECHUCA | Echuca Motors - 1 Nothern Highway |
| EUROA | Croxford Holden - 41 Clifton Street |
| FOSTER | Ray Dower Motors - 78 Main Street |
| HAMILTON | Peter Sandow Motors Pty Ltd - 261 Gray Street |
| HOPETOUN | Hopetoun Motors - 78 Lascelles Street |
| HORSHAM | Ivan Morrow Motors Pty Ltd - 22 O'Callaghans Street |
| KANIVA | Kaniva Motors - 82 Commercial Street |
| KOOWEERUP | G & J Light Mechanical repairs P/L - Station Road |
| KORUMBURRA | Peter Dunlevie Holden - 42 Commercial Street |
| KYABRAM | D'Alberto Holden - 60 McEwen Road |
| KYNETON | Mollison Motors Pty Ltd - 167 Mollison Street |
| LEONGATHA | Gleeson Holden - 37~43 Bair Street |
| MAFFRA | Maffra Holden - Johnson Street |
| MANSFIELD | Martin's Garage - 52~54 Chenery Street |
| MARYBOROUGH | Graham Jacka Holden - 35 Nolan Street |
| MILDURA | Stuart & Harrison (Sales) Pty Ltd - 24~32 Deakin Avenue |
| MORTLAKE | W. Christian (Mortlake) Pty Ltd - 107 Dunlop Street |
| MURRAYVILLE | Peers Motors - McKenzie Street |
| NATHALIA | BHB Motors - 6 Blake Street |
| NHILL | Ivan Morrow Motors Pty Ltd - 71~73 Nelson Street |
| NULLAWIL | Nullawil Motors & General Engineers - Calder Highway |
| ORBOST | Merlin Motors - Stanley Street |
| PORTLAND | Reynolds Holden - Henty Highway |
| QUAMBATOOK | Quambatook Auto Services - 32 Gutherie Street |
| ROCHESTER | Bruce Hocking Motors Pty Ltd - 71 Moore Street |
| ROBINVALE | Stuart & Harrison (Sales) Pty Ltd - cnr Herbert & George Sts |
| RUTHERGLEN | Jasper Bros Pty Ltd - 62 Main Street |
| SALE | Keith Boyd Holden - 273 York Street |
| SEALAKE | Paddy Smith Holden - Calder Highway |
| SEYMOUR | Neil Beer Holden - 49 Emily Street |
| SHEPPARTON | Parker Bros. Auto Co. - Benalla Road |
| STAWELL | Tonkin Motors - 71~73 Main Road |
| SWAN HILL | Swan Hill Holden - 94~102 Campbell Street |
| TALLANGATTA | Crispin Motors - 21 Towong Street |
| TIMBOON | Timboon Motors - Bailey Street |
| TRARALGON | Colin Watson Holden - Princes Highway |
| UNDERBOOL | A.J. Gloster & Sons - Cotter Street |
| WANGARATTA | Alan Capp (New Cars) Pty Ltd - Tone Road |
| WARBURTON | Col McKenzie Holden - Main Street |
| WARRACKNABEAL | Amor Motors Aubrey Truck Sales - 33 Woolcock Street |
| WARRAGUL | Vin Rowe Holden - 3 Endeavour Street |
| WARRNAMBOOL | Callaghan Motors Pty Ltd - 133~137 Fairy Street |
| WONTHAGGI | J.P. Holden - 2 Murray Street |
| YARRAM | John Palmer Holden - 150 Commercial Road |
| YARRAWONGA | Pigdons Pty Ltd - Belmore Street |

# QLD. HOLDEN DEALERS

## Qld. Metropolitan

| | |
|---|---|
| ALBION | Bill Harrison Car Sales - Frodsham Street & Crosby Road |
| ASPLEY | Zupps Aspley Pty Ltd - 1454 Gympie Road |
| CAPALABA | Oldfield Holden - 103 Redland Bay Road |
| INDOOROOPILLY | Westpoint Holden - 440 Moggill Road |
| IPSWICH | Ross Llewellyn Holden - 246 Brisbane Road |
| MOOROOKA | John Sivyer Holden - 1060 Ipswich Road |
| MT. GRAVATT | Zupps Motors Pty Ltd - 1310 Logan Road |
| NEWSTEAD | Eagers Retail Pty Ltd - 95 Breakfast Creek Road |
| PETRIE | Petrie Holden - 1059 Gympie Road |
| REDCLIFFE | Village Holden - 425 Elizabeth Avenue |
| SPRINGWOOD | Motorama Holden - 3455 Pacific Highway |
| WINDSOR | Leach Holden - 143 Newmarket Road |
| WOOLLOONGABBA | Armstrong Holden - 73 Ipswich Road |
| WYNNUM | Doug Barton Holden - 200 Tingal Road |

## Qld. Country

| | |
|---|---|
| ATHERTON | Redding Motors Pty Ltd - 2 Cook Street |
| AYR | Honeycombes Sales & Service - 213~217 Queen Street |
| BEAUDESERT | Lawson Holden - 57 Brisbane Street |
| BOWEN | McDermott Holden - 98 Herbert Street |
| BUNDABERG | Ross Gray Holden - Takalvan Street |
| CABOOLTURE | Beecham Holden - Bribie Island Road |
| CAIRNS | Ireland Holden - 227~233 Mulgrave Road |
| CALOUNDRA | Allan Scott Holden - Caloundra Road |
| CHARLEVILLE | Alan Dobbin Holden - 129 Alfred Street |
| CHARTERS TOWERS | Peters Holden - 57 Mosman Street |
| CHINCHILLA | Ainsworth Motors & Machinery Pty Ltd - 55 Chinchilla Street |
| CLONCURRY | Cloncurry Motors - 59 Scarr Street |
| CROWS NEST | Dennis Nissen Motors - 14 William Street |
| DALBY | Johnson's Holden - 36 Drayton Street |
| EMERALD | Orion Agriculture Supplies Pty Ltd - Clermont Street |
| GATTON | Gatton Auto Centre - 67 Railway Street |
| GLADSTONE | Andersons Auto City - 56 Yarroon Street |
| GYMPIE | Madills - 35 Mellor Street |
| INGHAM | Origlasso Motors - 99 Lannercost Street |
| INNISFAIL | I.C. Taylor Pty Ltd - 117 Edith Street |
| JULIA CREEK | Julia Creek Motors Pty Ltd - Burke Street |
| KILCOY | Hobart's Garage - 58 Mary Street |
| KINGAROY | John Dundas Pty Ltd - 38 King Street |
| LAIDLEY | Buhse's Garage Pty Ltd - 5 Spicer Street |
| LONGREACH | Longreach Motors - 33 Swan Street |
| MACKAY | Pioneer Holden - Cnr Gordon & Wellington Streets |
| MAROOCHYDORE | Sunco Holden - Wises Road |
| MARYBOROUGH | Whitaker Holden - 109~111 March Street |
| MOUNT ISA | Barkly Motors Pty Ltd - Marian Street |
| MURGON | Clifton Motors - McAllister Street |
| NAMBOUR | Kallenbach Motors - 139 Howard Street |

## Qld. & N.T. HOLDEN DEALERS

| | |
|---|---|
| NANANGO | Nanango Motors Pty Ltd - 72~74 Drayton Street |
| NOOSAVILLE | Madill's Noosa - Cnr Weyba Road and Mary Street |
| PROSERPINE | Crossley Car Sales Whitsunday Pty Ltd - 162~164 Main Street |
| QUILPIE | Quality Motors - Boonkai Street |
| ROCKHAMPTON | Lawrence's - 327 Richardson Road |
| ROMA | Maranoa Multi Agencies - Bowen Street |
| SOUTHPORT | Lockhart Holden - Cnr Nerang Road & Olsen Avenue |
| SPRINGSURE | Springsure Motors - Eclipse Street |
| ST. GEORGE | Halpin Motors - 39~41 Grey Street |
| STANTHORPE | Central Motors - 42 Maryland Street |
| TOOWOOMBA | Toowoomba Holden - Cnr James & Hume Streets |
| TOWNSVILLE | Tony Ireland Holden - 87~91 Charters Towers Road |
| TULLY | Island Coast Holden - 12 Richardson Street |
| WARWICK | Deighton Motors Pty Ltd - Grafton Street |

### N.T.

| | |
|---|---|
| ALICE SPRINGS | Kittle Holden - Cnr Wills & Railway Terrace |
| DARWIN | Kerry Holden - 21~25 Stuart Highway |
| KATHERINE | Master Motors - 3 Second Street |

# S.A. HOLDEN DEALERS

## S.A. Metropolitan

| | |
|---|---|
| ADELAIDE | City Holden - 223 Grenfell Street |
| ELIZABETH | Peter Page Holden - Elizabeth Way |
| MALVERN | Claridge Holden - 361~367 Unley Road |
| PORT ADELAIDE | Smiths of Port Adelaide - 271 Commercial Road |
| REYNELLA | Southgate Holden - 49~59 Main South Road |
| SOMERTON PARK | Hamilton Holden - 278~288 Brighton Road |
| THEBARTON | Metro Holden - 1 Port Road |
| VALLEY VIEW | Plaza Holden - 817~839 North East Road |

## S.A. Country

| | |
|---|---|
| BALAKLAVA | Balaklava Motors - 4 Wallace Street |
| BERRI | Rosenthal Bros Pty Ltd - Vaughan Terrace |
| CEDUNA | Beck Motors Pty Ltd - Poynton Street |
| CLARE | Brian Holmes Holden - 7 Old North Road |
| CLEVE | Herbert Motors Pty Ltd - Rudall Road |
| CUMMINS | Trigg & Wedd - 3 Umlauf Street |
| CRYSTAL BROOK | Newitts Crystal Brook - 26 Brandis Street |
| GAWLER | Steinborner Holden - Cnr Murray & Bridge Sts |
| KADINA | J.H. Rosewarne Pty Ltd - Graves Street |
| KEITH | Farmers Centre - McBain Street |
| KINGSCOTE | Roberts Motors - Telegraph Road |
| KINGSTON | Lecornu's Service Garage - Agnes Street |
| LOXTON | Flight Motors Pty Ltd - Bookpurnong Terrace |
| MAITLAND | Maitland Motors Pty Ltd - 58 Robert Street |
| MALLALA | Curnow's Garage Pty Ltd - Balaklava Road |
| MENINGIE | Peter Hood Holden - Cnr Princes Highway & Coonalpyn Road |
| MILLICENT | Dennis Cowling Holden - 98 George Street |
| MT. BARKER | Gilbert Motors - 57 Adelaide Road |
| MT. GAMBIER | O.G. Roberts & Co - Jubilee Highway West |
| MURRAY BRIDGE | Dutton Motors Pty Ltd - 7 Adelaide Road |
| NARACOORTE | Kingcraig Motors Pty Ltd - 158~164 Smith Street |
| OLYMPIC DAM | Lavrick Engineering - Olympic Way |
| PORT AUGUSTA | Ken Feltus Holden - 38 Stirling Road |
| PORT LINCOLN | City Motors - King Street |
| PORT PIRIE | Spencer Holden - 50 Ellen Street |
| RENMARK | Rosenthal Motors Pty Ltd - Ral Ral Avenue |
| STRATHALBYN | Gilbert Holden Strathalbyn - High Street |
| TANUNDA | Hage & Co Pty Ltd - 50 Murray Street |
| VICTOR HARBOR | Southern Motors Holden - 5 Victoria Street |
| WAIKERIE | Riverside Holden - 6 Crush Terrace |
| WHYALLA | Ken Feltus Holden Whyalla - 74 Essington Lewis Avenue |
| YANKALILLA | Martin Motors Pty Ltd - Main Street |
| YORKETOWN | Southway Holden - 7 Minalaton Road |

# W.A. HOLDEN DEALERS

## W.A. Metropolitan

| | |
|---|---|
| CANNINGTON | Brian Gardner Holden - 1308~1324 Albany Hwy |
| FREMANTLE | Shacks Holden - 64 Queen Victoria Street |
| GOSNELLS | Lance Gibbons Holden - 2325 Albany Highway |
| MANDURAH | Mandurah Holden - 283 Pinjarra Rd |
| MELVILLE | Melville Motors Pty Ltd - 532~540 Canning Highway |
| MIDLAND | Goldy Holden - 161 Great Eastern Highway |
| MORLEY | Metro Motors - 212 Walter Road |
| NAVAL BASE | Shacks Cockburn - 15 Rockingham Road |
| OSBORNE PARK | North City Holden - Cnr Scarborough Beach Rd & Harborne St |
| PERTH | City Motors - 505 Newcastle Street |
| VICTORIA PARK | Youngs Holden - 529 Albany Highway |
| WANNEROO | Phoenix Holden - 5 Berriman Drive |

## W.A. Country

| | |
|---|---|
| ALBANY | Manley Stanwell Holden - 92~98 Earl Street |
| BRIDGETOWN | Kordics Bridgetown - Hampton Street |
| BROOKTON | Coote Motors - Robinson Road |
| BROOME | Norwest Holden - McPherson Street |
| BUNBURY | Bunbury Holden - 3 Sandridge Road |
| BUSSELTON | Fennessy Holden - 2~4 Bussell Hwy |
| CARNAMAH | T & H Walton Stores Pty Ltd - Robertson Street |
| CARNARVON | North West Autos - 175 Robinson Street |
| COLLIE | Station Motors - 102 Throssell Street |
| CORRIGIN | Farmpower - Kunjin Road |
| CRANBROOK | Cranbrook Motors - 11~13 Gathorne Street |
| DALWALLINU | Reid & Inglis - Johnson Street |
| ESPERANCE | Dempster Holden - Norseman Road |
| GERALDTON | Youngs Motors - Cathedral Avenue |
| GNOWANGERUP | G.S. Hendry & Co Pty Ltd - Yougenup Street |
| HARVEY | Stockman Holden - 111 Uduc Road |
| KALGOORLIE | Kyle Motors - 114 Boulder Road |
| KARRATHA | Intown Autos - 1 Harwood Way |
| KATANNING | Edwards Holden - 159 Clive Street |
| KELLERBERRIN | Dowding Motors - 1 Mitchell Street |
| MANJIMUP | Manjimup Automotive Services - Pritchard Street |
| MERREDIN | Carson's of Merredin - 112 Barrack Street |
| MOORA | Frank Lewis Holden - Gardiner Street |
| NAREMBEEN | Aquip Machinery - 20 Churchill Avenue |
| NARROGIN | Marley White & Co - Federal Street |
| NORTHAM | Withnell Motors - 58 Fitzgerald Street |
| WAGIN | Marley White & Co - Tudor Street |
| WONGAN HILLS | Agro Machinery Pty Ltd - Fenton Street |
| WYALKATCHEM | Agro Machinery - Railway Terrace |

# CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 9 646 5466. Outside the Melbourne Metropolitan area, the number is 1800 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9 797 7341

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Services
GPO Box 343C
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- ★ Your name and address
- ★ Telephone numbers, both private & Business
- ★ Servicing Dealership's name and address
- ★ Vehicle model
- ★ Vehicle identification number (I.S.O.V.I.N.)
- ★ Date of purchase
- ★ Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

## Notes

CHAPTER 10

# Towing

Page


10-2 Loading
10-3 Towing
10-4 Towing precautions

# LOADING THE VEHICLE

Overloading is a safety hazard and could also shorten the life of your vehicle or its parts. The recommended carrying capacity of your vehicle is:

Barina 2 door - 475 kg (including 5 occupants and luggage)
Barina 4 door - 480 kg (including 5 occupants and luggage)
Combo - 545 kg (including 2 occupants and luggage)

If you load your vehicle other than to the above recommendations then you should ensure that the MAXIMUM REAR AXLE LOAD and the GROSS VEHICLE WEIGHT are not exceeded.

## Kerb weight

The kerb weights shown in the chart are for the weight of a standard unloaded vehicle, without any options, but with a full tank of fuel.

## (G.V.W.) Gross Vehicle Weight

The Gross Vehicle Weight is the maximum that a vehicle is allowed to weigh when fully loaded. This must include any luggage, passengers, roof rack load and a full tank of fuel. If you are towing, then the weight of the tow bar ball load (see following page) must also be included. The maximum, allowable weight for your vehicle is shown in the chart below.

## Maximum rear axle load

*Remember to take the tow bar ball load into account when determining the rear axle load.* The maximum allowable rear axle load for your vehicle is shown in the following chart.

| WEIGHTS | CITY | SWING | | JOY | | GSI | COMBO |
|---|---|---|---|---|---|---|---|
| | | manual | auto | manual | auto | | |
| Kerb | 840 kg | 895 kg | 930 kg | 880 kg | 915 kg | 970 kg | 1,075 kg |
| G.V.W. | 1,260 kg | 1,345 kg | 1,380 kg | 1,330 kg | 1,365 kg | 1,410 kg | 1,620 kg |
| Max rear axle | 630 kg | 645 kg | 645 kg | 635 kg | 635 kg | 655 kg | 970 kg |

## Roof rack loads

For safety reasons and to avoid damaging the roof, only the roof rack approved by Holden for your vehicle should be used.
The maximum allowable roof rack load is 100 kg.
Roof rack loads alter the handling of a vehicle, due to a change in the centre of gravity. When carrying loads on the roof rack avoid abrupt swerving or sharp steering. The load should be evenly distributed and you should not drive faster than 100 km/h.
The weight on the roof rack must be included when working out the maximum vehicle load (G.V.W.) - the roof rack load should be treated as luggage.

# TOWING

Your vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment is fitted. Your Holden Dealer will help supply and install towing equipment to suit your requirements. He will also be in possession of specifications concerning installation as well as any necessary modifications to the vehicle regarding the cooling system or other features.

The towing capacity when trailer brakes are fitted is:

500 kg (Barina 1.2 litre engine)

800 kg (Barina auto transmission with 1.4 litre engine)

900 kg (Barina manual transmission with 1.4 litre engine)

1000 kg (Barina 1.6 litre engine)

750 kg (Combo)

The towing capacity when trailer brakes are *not* fitted is:

400 kg (Barina 1.2 litre engine)

450 kg (Barina 1.4 litre engine)

450 kg (Barina 1.6 litre engine)

450 kg (Combo)

In higher elevations and/or mountainous terrain the maximum towing and loading limits should be reduced.

Note: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment.

## Tow bar ball load

The tow bar ball load is the weight on the tow bar ball, when the packed trailer/caravan is hitched. It must not exceed or drop below the following.

- loaded trailer weighing up to 625 kg - at least 4% of the loaded trailer weight.
- loaded trailer weighing over 625 kg - at least 25 kg but not more than 50 kg.

The tow bar ball load can be adjusted by correctly packing the contents of the trailer/caravan.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be greatly impaired. However, it is desirable to aim for the maximum, rather than the minimum tow bar ball load.

When measuring the tow bar ball load, make sure that the drawbar of the loaded trailer/caravan is at the same height as it will be when the trailer/caravan is mounted on the vehicle. This is particularly important for trailer/caravans with tandem axles.

## TOWING cont.

### Safe towing tips

Your car will handle differently when towing. It's a good idea to make a couple of short distance trips with the trailer/caravan before you set off on the big one.

Have your car correctly maintained and serviced.

Have your trailer/caravan maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.

You should have an extended-arm mirror on both sides of your car.

Headlights may need re-aiming after the loaded caravan has been hitched, particularly if a load equalizing hitch is not used.

Use a lower gear, rather than your brakes when descending steep hills.

If your trailer/caravan moves off the road behind you, allow the left wheels of your car to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.

### Towing precautions

- **When towing you should not exceed 80 km/h.**
- When towing, your tyres should be inflated to the maximum recommended pressure shown on the tyre placard.
- Loads should be secured so that they cannot slip and should be placed in the centre of the trailer/caravan is possible, i.e. above the axle.
- Trailer brakes are required on trailer/caravans weighing over 500 kg when loaded. Some States require trailer brakes on loads less than 500 kg
- The brakes on the trailer/caravan must be designed to cope with the braking requirements of that trailer/caravan under all towing conditions, without adversely affecting the brakes on the car.
- Make sure that you have enough room when cornering and avoid sudden manoeuvres.
- In the case of trailer/caravans with low directional stability, it is advisable to use a stabiliser to damp rolling motions.
- The cooling fan is driven electrically and so is not dependant on engine speed. At high engine speeds a hot of heat is produced and at low engine speeds correspondingly less heat is produced. For this reason, when driving uphill, do not shift down into a lower gear (which will increase engine speed) whenever the car can still climb the hill in the higher gear.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.
- If starting off on hills with a manual transmission, the most favourable engine speed is between 2,000 and 3,000 r.p.m. If an automatic transmission is fitted it is sufficient to fully depress the accelerator.

CHAPTER 11

# Cleaning


Page

**INTERIOR CLEANING**

11-2 Upholstery
11-3 Vinyl (P.V.C.) fabrics
11-3 Cloth fabrics
11-3 Carpet
11-3 Seat belts
11-3 Interior glass

**EXTERIOR CLEANING**

11-4 Washing
11-5 Grease, oil & tar spots
11-5 Polishing
11-5 Paint inspection
11-5 Wheels
11-6 Exterior glass
11-7 List of care & maintenance materials

# INTERIOR CLEANING

**CAUTION:**

**Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose. Be sure the car is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.**

## CARE AND CLEANING OF UPHOLSTERY

Dust and dirt which accumulate on upholstery should be removed every few weeks - more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

★ The type of fabric.

★ The nature and age of the stain.

★ The effect of the stain removal agent upon the colour, structure and general appearance of the upholstery.

It is essential that stains be removed as soon as possible after they have been made. If they are allowed to remain on the fabric for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

## CLEANING P.V.C. COATED FABRICS

Vinyl (P.V.C.) coated fabrics are used for seating, head linings and auxiliary trimming. The grades used vary according to their function. P.V.C. fabrics are generally made by coating fabric with synthetic resins. Care of P.V.C. fabrics is a relatively simple but important matter. The surface should be wiped over with a dry cloth during the regular cleaning of the car.

Should dirt accumulate and become embedded in the material pattern, the following procedure is recommended.

1. Using luke warm water and soap, or Holden's Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove stubborn stains or dirt embedded in the grain of the material.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

# INTERIOR CLEANING

## CLEANING CLOTH TRIM

Where the seats in your car are upholstered with cloth, the following instructions should be observed.

★ Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.

★ DO NOT use a whisk broom or a coarse hair brush.

★ If normal soiling should take place it is recommended that the fabric be sponged lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden's Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

## CLEANING CARPET

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden's Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

## CLEANING SEAT BELTS

Cleaning of seat belts can be carried out by using a mild non-abrasive soap and luke warm water. After washing be sure to thoroughly sponge the washing solution out of the belts.

**CAUTION:**

**Do not bleach or dye seat belts since this may severely weaken them.**

## CLEANING INTERIOR GLASS

The interior glass area of the car should be cleaned using Holden's Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

Never use abrasive cleaners on any car glass, as they may cause scratches.

# WASHING

**CAUTION:**

**Care should be taken when moving the car after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.**

## Underbody cleaning

Your car has a factory-applied PVC undercoating in the wheel arches (including longitudinal members) which provides permanent protection and needs no special maintenance. The surfaces of the car underside not covered by PVC are provided with a durable protective wax coating. Once a year, preferably before the start of the cold season the wax coating and PVC coating should be checked and if necessary, restored to perfect condition. Commercial bitumen and rubber materials can damage PVC coating. Have all work on the underbody performed by a Holden Dealer, as it required knowledge of the specified materials and experience concerning their application.

The underbody should be washed following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

## Washing paint

Washing not only removes dirt and road grime that settles on the car, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, excretion from insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint finish of the car. These should be removed without delay, using an effective removal agent.

## Regular washing

If the car is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois leathers, sponges or rags free from dirt or grit likely to scratch the paint finish. It is good practice to first hose the car to remove as much of the grit and grime as possible before swabbing the surface.

Do not wash the car under bright sunlight on hot days, as this will result in a streaky or spotted paint finish. This is caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the car after washing.

Holden's Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean, refer last pages of this chapter.

Do not use hot water, strong soap or chemical detergents. Any cleaner should be flushed promptly from the surface and not allowed to dry on the finish.

Hand washing of the car is recommended. However, if an automatic car wash is used then the roof antenna should be removed before driving through.

# EXTERIOR CLEANING

## Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish as soon as possible the area from which the foreign matter has been removed.

**Warnings**

- ★ Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to paint finishes.
- ★ If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the car is exposed to high temperatures.
- ★ Petrol MUST NOT be used to clean any painted or plastic surfaces.

## Insect spots

Insect spots on the paint finished parts of the car can be easily washed off by using a solution containing 1 litre of water in which approximately 110 grams of baking soda (Bicarbonate of Soda) has been dissolved. Flush the washed parts with clean water.

## Polishing and waxing

Wax your car regularly and in particular after it has been washed using shampoo, otherwise the paintwork will dry out. The car must be re-waxed before water no longer forms beads on the paint. Waxing prevents harmful chemical action. Also wax edges and folds on opened doors and flaps as well the areas they cover.

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it. Plastic body parts should not be treated with wax or polish.

## Paint inspection

Regular inspection of the car should be made for scratch marks, cracks or damaged areas, all of which could develop rust and thus affect paint finish. Any deep scratches, cracks or breakdown in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist, or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect. The paint finish of the car gives a very high degree of protection against the weather, but is should be realised that wear and deterioration occur when the car is exposed to elements for prolonged periods. The car therefore should be garaged whenever possible.

## Wheels

Wheels are painted and can be treated with the same cleaner as the body. For alloy wheels Holden's alloy wheel cleaner is recommended.

# EXTERIOR CLEANING

## Tyres

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease can, and should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.
New tyre look can be restored using Holden's Tyre and Bumper Shine, refer last pages of this chapter.

## Glass cleaning - general

Special care should be taken to avoid scratching the glass when cleaning. If it is cleaned at the same time as the rest of the car, there is a possibility that particles of grit will cause fine scratches. Flush off any heavy mud deposits on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden's Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

## Windscreen

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible in wiping the surface. Old wiper blades can cause windscreen scratching and therefore should be inspected regularly and replaced as necessary.
Abrasive materials must never be used to clean glass as they can cause scratches. A scratched windscreen will impair vision, particularly at night. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft lint free cloth or chamois.
It is recommended that Holden's Optikleen be added to the windscreen washer reservoir to assist the wipers in keeping the windscreen clean whilst driving.

## Wiper blades

Oil and road scum thrown up onto the windscreen will cause smearing when the wipers are switched on, as dirt then transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and cleaning with Holden's Optikleen and a clean cloth.
DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM.
If in dry conditions, the wiper blades are used to clean dust and dirt from the windscreen always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

## Engine bay

Important areas of the engine bay have been protected with a lacquer coating. Wash the engine only if absolutely necessary. Before washing the engine, protect the alternator and brake fluid container with plastic covers. After washing, parts of the engine, parts of the brake system located in the engine bay, axle components as well as body parts and cavities may need to protectively re-waxed.

# CARE & MAINTENANCE MATERIALS

| HOLDEN'S PART NUMBER | SIZE | DESCRIPTION | USAGE |
|---|---|---|---|
| M39828 | 500 ml | Polymer glaze polish | Seals in a deep, lustrous, glazed finish. Long life protection from oxidation, salt and weather damage. |
| M39829 | 500 ml | Easy gloss polish | Contains silicones and hard working waxes for extra shine. |
| M39646 | 250 g | Deep shine glaze polish | Contains carnuba wax for a mirror finish. |
| M39830 | 500 ml | Wash on shine | Contains polymer protectants to shine. Adds a protective film to paintwork. |
| M39831 | 500 ml | Foaming car wash | Leaves a no-streak finish. |
| M38424 | 400 g | Velour fabric and vinyl cleaner | Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets. |
| M40383 | 350g | Tyre and bumper shine | Restores tyres and bumpers to as new finish. |
| M40501 | 350 g | Glass cleaner | Cleans all glass surfaces. |
| M39826 | 500 ml | Optikleen | Windscreen washer solvent. |
| M39168 | 125 g | Car freshner/deodorant | Removes tobacco smells and other odours. |
| M40500 | 300 g | Bug, tar and spot remover | Quickly dissolves and removes tar, grease, oil, bugs and other stubborn stains from your car's exterior. |

## CARE & MAINTENANCE MATERIALS cont.

| HOLDEN PART NUMBER | SIZE | DESCRIPTION | USAGE |
|---|---|---|---|
| M39760 | 350 g | Spray grease | Lithium based grease in a can. Sprays as a liquid. Ideal for springs, cables, linkages etc. |
| M40276 | 750 ml | Wheel cleaner | Cleaning of all wheels, including alloy wheels. |
| 1050002 | 470 ml | Top engine cleaner | Purges gum, carbon, varnish and sludge from internal parts. |
| M41005 | 1 litre | Brake fluid | Extra heavy duty brake fluid, meeting SAE J1703, DOT 4. |
| 92026651 | 500 ml | Brake fluid | Extra heavy duty brake fluid, meeting SAE J1703, DOT 4. |
| M40236 | 1 litre | Radiator coolant / inhibitor | Inhibitor providing year-round protection against corrosion and rust. Anti-freeze lowers freezing point for the cold winter months. Coolant increases boiling point of the cooling system for the summer months. |
| M40307 | 5 litres | " | |
| M40238 | 20 litres | " | |
| M39304 | 500 ml | Radiator cleaner | Use prior to or replacing coolant. |
| M37223 | 400 g | Degreaser | Removes oil and grease from engines. |
| M33028 | 27 g | Solid oil | Lubricant for locking mechanisms, door hinges, sticking windows. |

CHAPTER 12

# Servicing

Page


12-2 Service intervals

12-3 Extreme operating conditions

12-4 Maintenance schedule

12-5 Service costs

12-7 Maintenance coupons

12-33 Change of name/address/ ownership

## SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

15,000 km - 1 year
30,000 km - 2 years
45,000 km - 3 years
60,000 km - 4 years
75,000 km - 5 years
90,000 km - 6 years
105,000 km - 7 years
120,000 km - 8 years
135,000 km - 9 years
150,000 km - 10 years
165,000 km - 11 years
180,000 km - 12 years
195,000 km - 13 years

The one month (1,500 kilometres) service will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary letter of Introduction upon request.

The services shown in this schedule between 15,000 km and 195,000 km are to be performed after 195,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to the transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carried out by an Authorised Holden Dealer or Service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 9-2, so that you aware of the conditions.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important, as it will not only assist in determining Warranty Claims, but will enhance the value of the vehicle on resale.

# EXTREME OPERATING CONDITIONS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,500 km under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

| | Short distance with frequent cold starts | Mainly city or short distance driving |
|---|---|---|
| Change engine oil and filter | ✔ | ✔ |

| | |
|---|---|
| SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... | SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... |
| SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... | SPECIAL ENGINE OIL AND ENGINE OIL FILTER CHANGE FOR EXTREME OPERATING CONDITIONS<br><br>Date ..... km .....<br>Servicing<br>Dealer ..... |

# MAINTENANCE SCHEDULE

| Use odometer reading or years, whichever occurs first | x 1,000 km | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | or years | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| **SERVICE ITEMS** | | | | | | | | | | | | | |
| COOLANT - check level, check coolant % | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| DRIVE BELTS - check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ENGINE TOOTHED BELT - replace | | | | | 4 | | | | 8 | | | | 12 |
| AIR CLEANER paper element - replace | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| SPARK PLUGS - replace | | | | | 4 | | | | 8 | | | | 12 |
| FUEL FILTER - replace | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| EXHAUST EMISSION - check with TECH 1:<br>- readout of stored trouble codes<br>- visual check of exhaust components<br>- check idle speed, ignition timing, idle CO-contents<br>- check function of catalytic converter | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ENGINE OIL AND FILTER - replace | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| POWER STEERING - check level | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| AUTO TRANS - check fluid level. Readout of stored trouble codes with TECH 1 | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| LEAKAGE - visual check of engine and trans | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| LIGHTS & SIGNAL DEVICES - check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| WINDSCREEN WIPE/WASH system check fluid level and blade condition | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| CLUTCH PEDAL adjustment - check adjustment | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |

# MAINTENANCE SCHEDULE

| Use odometer reading or years, whichever occurs first | x 1,000 km | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | or years | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| **SERVICE ITEMS** | | | | | | | | | | | | | |
| HEADLIGHT ADJUSTMENT - check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| BODY/UNDERBODY - check corrosion protection | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| FRONT DISC BRAKES - check pad thickness | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| REAR DRUM BRAKES - check pad thickness | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| RUBBER BOOTS - check | | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 |
| WHEELS - check wheel nut torque, tyre condition and tyre pressure | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| POLLEN FILTER - change (if fitted) | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| BRAKE PROPORTIONING VALVE - check | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| BRAKE FLUID - change | | | change every 2 years (regardless of km) | | | | | | | | | | |
| ROAD TEST | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| **SERVICE TIMES** | | | | | | | | | | | | | |
| Labour hours | | 1.1 | 1.5 | 1.1 | 2.6 | 1.1 | 1.5 | 1.1 | 2.6 | 1.1 | 1.5 | 1.1 | 2.6 |
| add 0.2 hours when brake fluid changed | | | | | | | | | | | | | |
| add if pollen filter fitted | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

- The owner will be charged for all lubricants and materials used plus labour at the times recommended above.
- The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.
- Where any deficiencies are noted, such items should be reported to the owner/ operator so that the extra work required can be authorised.
- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

**15,000 km or 1 year**

**SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**15,000 km or 1 year Service Validation**

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans.
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

**30,000 km or 2 years**

**SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**30,000 km or 2 year Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ AUTO TRANS - check fluid level. Read-out of stored trouble codes with TECH 1
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**45,000 km or 3 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**45,000 km or 3 years Service Validation**

Servicing Dealer.....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed.....

Additional services performed:.....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

---

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**60,000 km or 4 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 2.6 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**60,000 km or 4 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE TOOTHED BELT - replace
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - check, replace only if necessary
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ AUTO TRANS - check fluid level. Read-out of stored trouble codes with TECH 1
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES AND BRAKE PRESSURE HOSES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**75,000 km or 5 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**75,000 km or 5 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

---

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**90,000 km or 6 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**90,000 km or 6 years Service Validation**

Servicing Dealer.....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed:.....

.....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ AUTO TRANS - Check fluid level, read-out of stored trouble codes with TECH 1
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**105,000 km or 7 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**105,000 km or 7 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed .....

.....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**120,000 km or 8 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 2.6 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**120,000 km or 8 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE TOOTHED BELT - replace
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ AUTO TRANS - check fluid level. Read-out of stored trouble codes with TECH 1
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**135,000 km or 9 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**135,000 km or 9 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

---

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**150,000 km or 10 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**150,000 km or 10 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ AUTO TRANS - check fluid level. Read-out of stored trouble codes with TECH 1
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**165,000 km or 11 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**165,000 km or 11 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**180,000 km or 12 years SERVICE COUPON**

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 2.6 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**180,000 km or 12 years Service Validation**

Servicing Dealer.....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed.....

Additional services performed:.....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE TOOTHED BELT - replace
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ AUTO TRANS - Check fluid level, read-out of stored trouble codes with TECH 1
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH PEDAL adjustment - check adjustment
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ REAR DRUM BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

**195,000 km or 13 years SERVICE COUPON**

**I authorise performance of the services specified on the rear of this coupon.**

**I understand I will be charged for the following hours of labour:**

- 1.1 hours labour
- add 0.2 hours if brake fluid changed
- add 0.1 hours if pollen filter fitted

**Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.**

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

**195,000 km or 13 years Service Validation**

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

.....

.....

.....

.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ POLLEN FILTER - change (if fitted)
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE FLUID - change every 2 years (regardless of km)

## CHANGE OF ADDRESS OR OWNERSHIP

**In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this car.**

**Also, if less than three years old, this car will qualify for Roadside Service (refer Chapter 9), provided our owner name and address records are current.**

**If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail this form. The mailing address is shown on the back of this page.**

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (e.g. Mrs)

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State Postcode

Car registration number

Holden Number (see page 8-5 of this book)

ISOVIN Number (see page 8-5 of this book)

*Place in an envelope and mail to:*

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

To ensure continued interest in your car, Holden's requests that owners who change their name or address, or subsequent owners who purchase the car, fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

## CHANGE OF ADDRESS OR OWNERSHIP

**In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this car.**

**Also, if less than three years old, this car will qualify for Roadside Service (refer Chapter 9), provided our owner name and address records are current.**

**If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail this form. The mailing address is shown on the back of this page.**

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (e.g. Mrs)

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State

Postcode

Car registration number

Holden Number (see page 8-5 of this book)

ISOVIN Number (see page 8-5 of this book)

*Place in an envelope and mail to:*

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

To ensure continued interest in your car, Holden's requests that owners who change their name or address, or subsequent owners who purchase the car, fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

## CHANGE OF ADDRESS OR OWNERSHIP

**In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this car.**

**Also, if less than three years old, this car will qualify for Roadside Service (refer Chapter 9), provided our owner name and address records are current.**

**If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail this form. The mailing address is shown on the back of this page.**

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (e.g. Mrs)

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State

Postcode

Car registration number

Holden Number (see page 8-5 of this book)

ISOVIN Number (see page 8-5 of this book)

*Place in an envelope and mail to:*

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

# INDEX


Air Bag ..... 6-12
Accidents ..... 6-2
Air conditioning ..... 1-12
Air pressures (tyres) ..... 7-9
Alarm system ..... 2-6
Alternator warning light ..... 1-6
Anchorage points ..... 3-8
Antifreeze fluid ..... 7-4
Anti-theft system ..... 2-6
Appearance care ..... 11-1
Ash tray ..... 1-11
Audible warning ..... 1-9
Automatic transmission
  Operation ..... 4-4
  Fluid level ..... 7-5
ABS ..... 4-9

Battery
  Fluid level ..... 7-7
  When flat ..... 6-10
Bonnet release ..... 1-18
Boiling ..... 6-8
Brakes
  ABS ..... 4-9
  Precautions ..... 4-8
  Fluid level ..... 7-6
  Warning light ..... 1-6
  Park brake ..... 3-12
Bulbs (replacement) ..... 7-13

Capacities (fluid) ..... 8-2
Caravan & trailer towing ..... 10-3
Carbon monoxide warning ..... 5-2
Cassette ..... 1-11
Central locking ..... 2-4
Certificate ..... 9-2
Change of name/address ..... 12-35
Check engine light ..... 1-6
Child proof door locks ..... 2-2
Child restraints ..... 3-8
Cigarette lighter ..... 1-11
Cleaning of vehicle ..... 11-1
Clock ..... 1-17
Combo cargo grille ..... 3-13
Cooling system
  Fluid level ..... 7-4
  Overheating ..... 6-8
  Temperature gauge ..... 1-5
Courtesy light ..... 1-9
Curb weight ..... 10-2
Customer assistance ..... 9-21

Date ..... 1-17
Deadlock ..... 2-4
Dealers (Authorised Holden) ..... 9-12
Demister ..... 1-16
Dimensions ..... 8-3
Dimmer ..... 1-4
Dipping (headlights) ..... 1-9
Dipstick ..... 7-3
Dome light
  Bulb replacement ..... 7-16
  Operation ..... 1-9
Door locks ..... 2-4
Driving precautions ..... 4-8

Electric door locks ..... 2-4
Electric mirrors ..... 3-10
Emergencies ..... 6-1
Emission control system ..... 5-5
Engine
  Cooling system ..... 7-4
  Identification number ..... 8-5
  Overheating ..... 6-8
  Specifications ..... 8-2
  Starting ..... 4-2
  Warning light ..... 1-6

# INDEX


Engine oil
  Capacity ..... 8-2
  Checking levels ..... 7-3
  Pressure light ..... 1-7
Exhaust gas warning ..... 5-2

First aid ..... 6-3
Flashers
  Hazard warning ..... 1-10
  Turn signal ..... 1-9
Flat battery ..... 6-10
Flat tyre ..... 6-4
Fluid capacities ..... 8-2
Fluid levels
  Automatic transmission ..... 7-5
  Battery ..... 7-7
  Brake ..... 7-6
  Coolant ..... 7-4
  Oil ..... 7-3
  Power Steering ..... 7-6
  Windscreen washer ..... 7-7
Folding seat ..... 3-4
Fog lights ..... 1-10
Fuel
  Refuelling ..... 5-3
  Gauge ..... 1-5
  Warning light ..... 1-6
Fumes caution ..... 5-2
Fuses ..... 7-8

Gear box ..... 4-6
Generator warning light ..... 1-6
Glovebox ..... 1-11
Globe replacement ..... 7-13

Hand brake ..... 3-12
Hazard warning flashers ..... 1-10
Head restraint ..... 3-8
Heater controls ..... 1-12
Heated rear window ..... 1-16
Headlamps
  Bulb replacement ..... 7-13
  Switch ..... 1-9
Height adjust seat belts ..... 3-7
High beam indicator light ..... 1-6
Holden Dealers ..... 9-12
HoldenWise ..... 9-8
Hood ..... 1-18
Horn ..... 1-3

Identification numbers ..... 8-4
Ignition switch ..... 1-3
Indicators (turn signals) ..... 1-9
Indicator/warning lights ..... 1-6
Infant & child restraints ..... 3-8
Inflation (tyres) ..... 7-9
Instrument panel ..... 1-2
Interior (dome) light ..... 1-9

Jack ..... 6-4
Jump starting ..... 6-10

Keys ..... 2-2
Kerb weight ..... 10-2

Labels ..... 8-4
License plate light ..... 7-16
Lights
  Bulb replacement ..... 7-13
  Instrument panel ..... 1-4
  Headlight switch ..... 1-9
  Interior light ..... 1-9
Loading information ..... 10-2

# INDEX


Locks
- Bonnet ..... 1-18
- Tailgate ..... 2-4
- Door ..... 2-3
- Fuel filler ..... 5-3
- Glovebox ..... 1-11
- Ignition ..... 1-3

Low fuel light ..... 1-6
Lubricants ..... 8-2

Maintenance schedule ..... 12-4
Manuals (service) ..... 7-2
Manual transmission
- Fluid capacity ..... 8-3
- Operation ..... 4-6

Medical assistance ..... 6-3
Mirrors ..... 3-10
Mobile trolley jack locations ..... 7-12
Model identifications ..... 8-5

New vehicle running-in ..... 4-2

Octane rating (petrol) ..... 5-4
Odometer ..... 1-4
Oil
- Capacity ..... 8-2
- Level ..... 7-3
- Low pressure warning ..... 1-7

Outlets, air ..... 1-12
Overheating
- Procedure ..... 6-8
- Temperature warning ..... 1-5

Owner responsibility
- Emission controls ..... 5-5
- Weekly checks ..... 7-2
- Maintenance service ..... 12-2

Paintwork cleaning ..... 11-4
Park brake lever ..... 3-12
Parking ..... 4-3
Petrol ..... 5-3
Plates ..... 8-4
Polishing ..... 11-5
Power locking ..... 2-4
Power mirrors ..... 3-10
Power steering
- Fluid level ..... 7-6
- Precaution ..... 4-8

Push starting ..... 6-10

Radiator -
See "Cooling system"
Radio ..... 1-11
Reading lights ..... 3-12
Rear axle load ..... 10-2
Rear seat adjustment ..... 3-4
Rear window demister ..... 1-16
Rear window wipe/wash ..... 1-8
Rear vision mirrors ..... 3-10
Refuelling ..... 5-3
Restraints ..... 3-8
Roof racks ..... 10-2
Running-in ..... 4-2

Safer Driving precautions ..... 4-8
Safety belts ..... 3-6
Seat
- Rear ..... 3-4
- Front ..... 3-2

Seat belts ..... 3-6
Serial number ..... 8-5
Service ..... 12-2
Service manuals ..... 7-2
Snow Chains ..... 4-8
Spare wheel ..... 6-4

# INDEX


Spark plugs ..... 8-2
Specifications ..... 8-1
Speedometer ..... 1-4
Sporty drive ..... 1-6
Starting
  Flat Battery ..... 6-10
  Normal engine ..... 4-2
Steering power ..... 7-6
Stereo, radio/cassette ..... 1-11
Stop/tail light replacement ..... 7-15
Storage, jack & spare wheel ..... 6-4

Tachometer ..... 1-4
Tailgate ..... 2-3
Tank capacity ..... 5-4
Temperature gauge ..... 1-5
Theft deterrent ..... 2-6
Time ..... 1-17
Towing
  Caravan/trailer ..... 10-3
  Disabled vehicle ..... 6-13
Transmission
  Automatic ..... 4-4
  Manual ..... 4-6
Trip meter ..... 1-4
Trolley jack location ..... 7-12
Turn signal
  Bulb replacement ..... 7-14
  Operation ..... 1-9
Tyres
  General ..... 7-10
  Inflation pressure ..... 7-9
  Rotation ..... 7-10

Vehicle Identification Number ..... 8-5
Vehicle loading ..... 10-2
Vehicle weights ..... 10-2
Ventilation system ..... 1-12

Warning lights ..... 1-6
Warranty Certificate ..... 9-2
Washer Fluid ..... 7-7
Washing ..... 11-4
Wheel changing ..... 6-4
Wheel replacement ..... 7-10
Windows ..... 3-11
Windscreen
  Wiper/washer control lever ..... 1-8
  Fluid level ..... 7-7
Wiper blades ..... 11-6